

KING COUNTY

# CITY OF ISSAQUAH

WASHINGTON

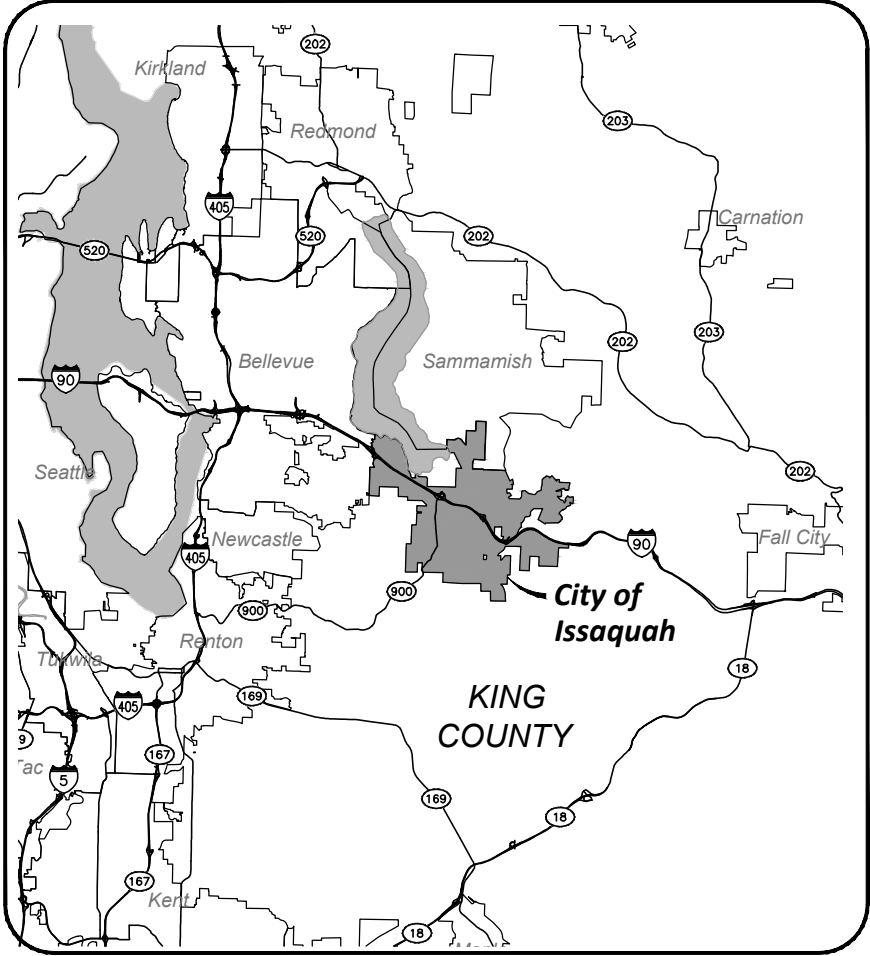
## EAST LAKE SAMMAMISH PARKWAY SE IMPROVEMENTS (SE 56TH STREET TO SE ISSAQUAH-FALL CITY ROAD)

### CONTACT PERSONNEL

NAME	AGENCY	PHONE No.
GARY COSTA	CITY TRANSPORTATION MANAGER	425-837-3443
KELLY PURNELL	PUGET SOUND ENERGY MUNICIPAL CONSTRUCTION PLANNER	425-462-3488
ANDY SWAYNE	PUGET SOUND ENERGY	
LISA TOBIN	SAMMAMISH PLATEAU WATER AND SEWER DISTRICT	
JIM BROOKE	COMCAST	253-261-2895
PETER STOCKTON	CENTURYLINK	206-345-3963
BRIAN SOURWINE	GRAY & OSBORNE, INC.	206-284-0860

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VICINITY MAP  
NOT TO SCALE

FEDERAL AID NUMBER: STPUL-1915(009)  
FEDERAL CONTRACT NUMBER: LA8153

### CITY OFFICIALS

AVA FRISINGER	MAYOR
MARY LOU PAULY	COUNCILMEMBER
FRED BUTLER	COUNCILMEMBER
EILEEN BARBER	COUNCILMEMBER
JOSHUA SCHAER	COUNCILMEMBER
STACY GOODMAN	COUNCILMEMBER
PAUL WINTERSTEIN	COUNCILMEMBER
TOLA MARTS	COUNCILMEMBER
BOB HARRISON	CITY ADMINISTRATOR
TINA EGGERS	CITY CLERK
SHELDON LYNNE	PUBLIC WORKS ENGINEERING DIRECTOR
TODD CHRISTENSEN	SENIOR ENGINEER



**PRELIMINARY**  
**1/22/2014**



**CITY OF ISSAQUAH**  
**PUBLIC WORKS ENGINEERING**  
**CITY HALL NORTHWEST**  
**1775 12TH AVENUE NW**  
**ISSAQUAH, WASHINGTON 98027**  
**JANUARY 2014**

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ABBREVIATIONS

AVE	AVENUE
AC	ASBESTOS CEMENT PIPE
ADJ	ADJUST
ALT	ALTERNATE
ALUM	ALUMINUM
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AP	ANGLE POINT
ASPH	ASPHALT
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
ASSY	ASSEMBLY
BF	BLIND FLANGE
BLDG	BUILDING
BLK	BLOCK
BO	BLOW OFF
BOP	BEGINNING OF PROJECT
BVCE	BEGIN VERTICAL CURVE ELEVATION
BVCS	BEGIN VERTICAL CURVE STATION
CTR	CENTER
CAP	CORRUGATED ALUMINUM PIPE
CB	CATCH BASIN
CI	CAST IRON
CL	CENTER LINE
CLR	CLEARANCE
CMP	CORRUGATED METAL PIPE
CO	CLEANOUT
CONC	CONCRETE
C	CONDUIT
CONN	CONNECTION
CONT	CONTINUOUS
CPEP	CORRUGATED POLYETHYLENE PIPE
CPLG	COUPLING
CY	CUBIC YARD
CONT	CONTINUED
CL	CLASS
CF	CUBIC FEET
CFS	CUBIC FEET PER SECOND
DC	DEGREE OF CURVATURE
DI	DUCTILE IRON
DIA	DIAMETER
DOT	DEPARTMENT OF TRANSPORTATION
DIM	DIMENSION
DWGS	DRAWING(S)
D	DRAIN
E	EAST
EA	EACH
EL	ELEVATION
ELEC	ELECTRICAL
EOA	EDGE OF ASPHALT
EOP	END OF PROJECT
EVCE	END VERTICAL CURVE ELEVATION
EVCS	END VERTICAL CURVE STATION
EXIST	EXISTING
FIG	FIGURE
FIN	FINISHED
FL	FLANGE
FT	FEET
GA	GAUGE
GALV	GALVANIZED
GI	GALVANIZED IRON
GV	GATE VALVE
HDPE	HIGH DENSITY POLYETHYLENE PIPE
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
INV	INVERT
IN	INCH
L	LENGTH
LB	POUND
LF	LINEAR FEET
MAX	MAXIMUM
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MJ	MECHANICAL JOINT
MISC	MISCELLANEOUS
N	NORTH
NO	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
PI	POINT OF INTERSECTION
PP	POWER POLE
PVI	POINT OF VERTICAL INTERSECTION
PE	PLAIN END
PERF	PERFORATED
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
PVT	POINT OF VERTICAL TANGENT
PC	POINT OF CURVATURE
PT	POINT OF TANGENCY
QTY	QUANTITY
RET	RETAINING
RR	RAILROAD
R	RADIUS
RED	REDUCER
REINF	REINFORCE
REQD	REQUIRED
R/W	RIGHT-OF-WAY
SL	SLOPE
S	SOUTH
SCH	SCHEDULE
SF	SQUARE FEET
SHT	SHEET
SPECS	SPECIFICATIONS
SQ	SQUARE
STA	STATION
STD	STANDARD
TB	THRUST BLOCK
TC	TOP OF CURB
TEL	TELEPHONE
TESC	TEMPORARY EROSION AND SEDIMENT CONTROL
THRD	THREADED
THRU	THROUGH
TYP	TYPICAL
VERT	VERTICAL
W	WEST
WSDOT	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
W/	WITH
W/O	WITHOUT

LINETYPES

EXISTING	PROPOSED	DESCRIPTION
SURFACE FEATURES		
		CURB (TYPE AS NOTED)
		CURB & GUTTER
		ASPHALT PAVEMENT
		PAVEMENT PLANING
		GRAVEL SURFACING
		CONCRETE SURFACING
		CEMENT CONC. SIDEWALK
		FENCE/RAILING (TYPE AS NOTED)
		FENCE WITH GATE
		GUARD RAIL
		SHRUB/TREE/VEGETATION LINE
		EDGE OF LANDSCAPING
		SILT FENCE
SURVEY		
		RIGHT-OF-WAY LINE
		CENTERLINE OF RIGHT-OF-WAY
		CENTERLINE OF CONSTRUCTION
		PROPERTY LINE
		PERMANENT EASEMENT LINE
		TEMPORARY EASEMENT LINE
		CONTOUR LINE
		APPROXIMATE TOP OF CUT
		APPROXIMATE TOE OF FILL
		SAWCUT LINE (APPROXIMATE LOCATION)
UTILITIES		
		OVERHEAD UTILITIES
		BURIED ELECTRICAL
		BURIED TELEPHONE/COMMUNICATIONS
		BURIED CABLE TELEVISION
		BURIED FIBER-OPTIC LINE
		JOINT TRENCH
		GAS MAIN (SIZE AS NOTED)
		WATER MAIN (SIZE AS NOTED)
		SANITARY SEWER MAIN (SIZE AS NOTED)
		SANITARY SEWER FORCE MAIN (SIZE AS NOTED)
		STORM DRAIN (SIZE AS NOTED)
		UNDERDRAIN (SIZE AS NOTED)
		CULVERT (SIZE & TYPE AS NOTED)
		DITCH CENTERLINE/THALWEG

WATER SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		CAP/PLUG
		COUPLING/ADAPTER
		GUARD POST
		REDUCER
		THRUST BLOCK
		WATER METER
		WELL
		WATER VAULT (SIZE VARIES)
FIRE HYDRANT		
		FIRE HYDRANT (2--NOZZLE)
		FIRE HYDRANT (3--NOZZLE)
VALVES		
		AIR RELIEF
		BLOW-OFF
		WATER VALVE

SURVEY SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		ANGLE POINT
		SURVEY SET CONTROL
		MONUMENT (IN CASE)
		MONUMENT (SURFACE)
		SOIL BORING/TEST PIT

SURFACE FEATURES/LANDSCAPING

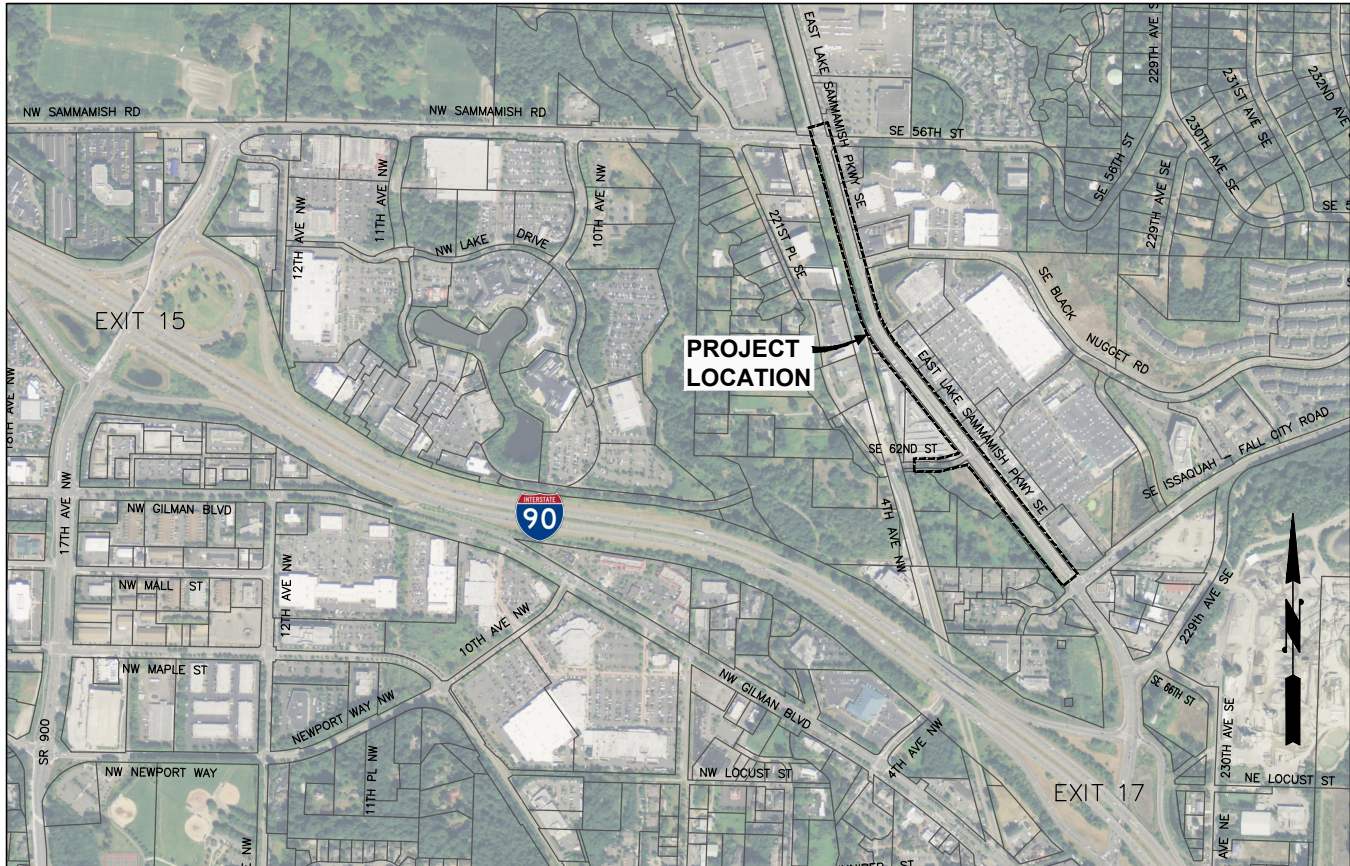
EXISTING	PROPOSED	DESCRIPTION
		BUILDING
		APPROXIMATE DOORWAY LOCATION
		BUILDING EAVES
		BUS STOP
		MAIL BOX (NOTED)
		SIGN
		RIP RAP
		MODULAR BLOCK WALL
		SEGMENTAL BLOCK WALL
		SHRUB
		TREE (CONIFER)
		TREE (DECIDUOUS)
		WETLAND
		EDGE OF CREEK/STREAM OR OHWM

GAS/POWER/TELEPHONE SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		GAS METER
		GAS VALVE
		PAD MOUNT TRANSFORMER
		POWER VAULT (SIZE VARIES)
		UTILITY POLE/FOUNDATION
		UTILITY POLE ANCHOR
		JUNCTION BOX (TYPE I, II, III)
		UTILITY PEDESTAL
		TELEPHONE VAULT (SIZE VARIES)

SANITARY/STORM SEWER SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		CLEAN OUT (SAN. SEWER OR STORM)
		SANITARY SEWER MANHOLE
		STORM DRAIN CATCH BASIN, CONC. INLET, OR YARD/AREA DRAIN
		STORM DRAIN MANHOLE/TYPE 2 CATCH BASIN



PROJECT LOCATION MAP



SCALE: 1"=600'



**Gray & Osborne, Inc.**  
CONSULTING ENGINEERS  
701 DEVER AVENUE NORTH, SUITE 200  
SEATTLE, WASHINGTON 98109 • (206) 264-0860

DATE: JAN. 2014	SCALE: NOTED	DRAWN: C.B.W.	CHECKED: C.B.W.	APPROVED: B.L.S.
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PRELIMINARY NOT FOR CONSTRUCTION	REVISION	DATE	APPD

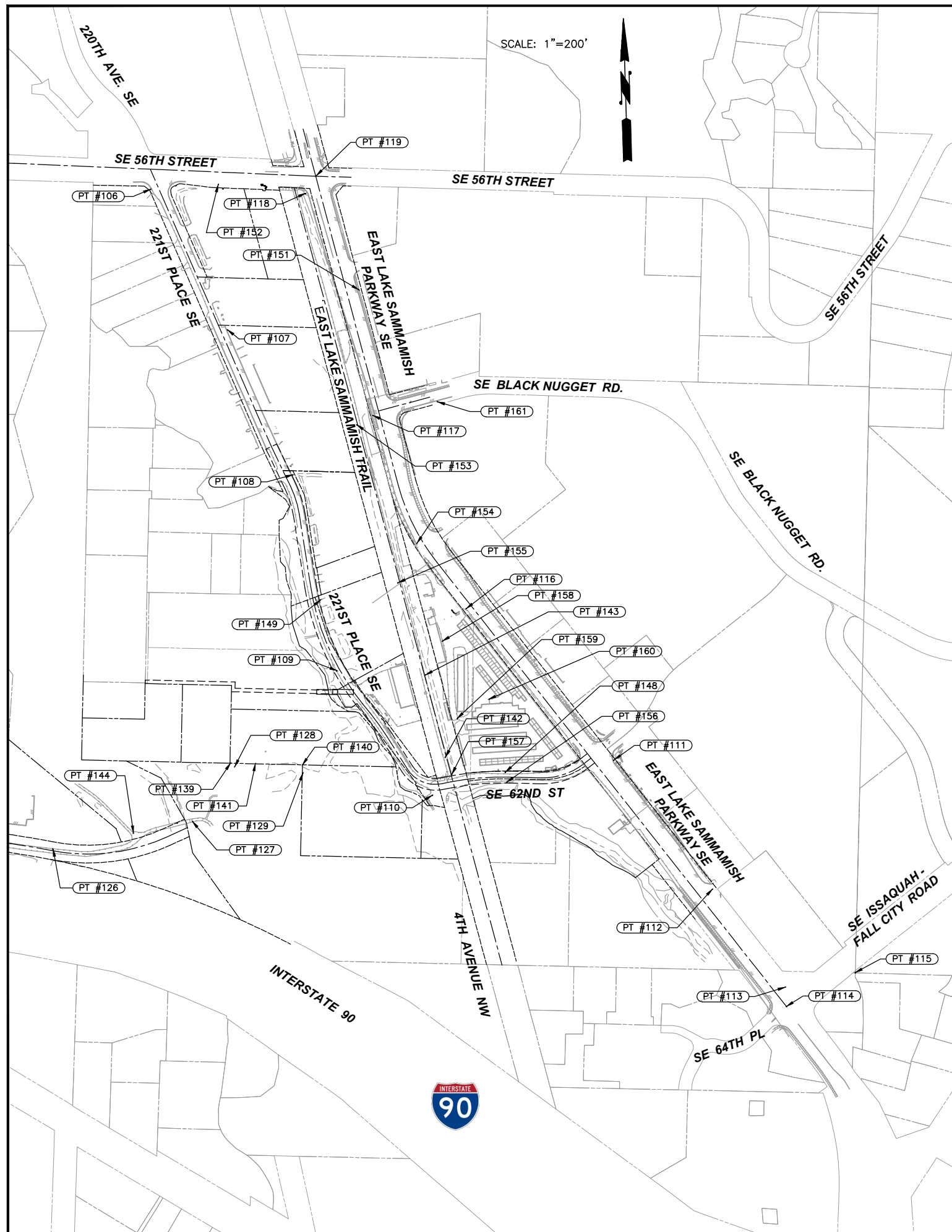


**CITY OF ISSAQUAH**  
KING COUNTY  
**EAST LAKE SAMMAMISH PARKWAY SE IMPROVEMENTS**

ABBREVIATIONS, SYMBOL LEGEND, AND  
LOCATION MAP

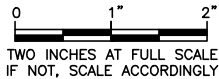
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JOB NO.: 13570
DWG: LEGEND








HORIZONTAL DATUM: NAD 83/91 WSPCS N ZONE			SURVEY CONTROL TABLE	
VERTICAL DATUM NAVD 88				
POINT	NORTHING	EASTING	Elev.	DESCRIPTION
106	203634.74	1340975.20	54.92	SFNT, BCE TRAV PT. TAG & MAG NAIL. SW'LY COR INTX SE 56TH ST/221 PL SE. +/- 10' S-SE FROM CROSSWALK. 7.7' N-NW FROM END OF SIDEWALK.
107	203160.89	1341234.76	57.06	SSN, 14.5' S-SE FROM N'LY END OF SIDEWALK. 2.7' ELY FROM TBC. +/- 12' NW FROM PP ON BUSH LANE. JUST S. OF INTEGRITY AUTOMOTIVE.
108	202672.58	1341454.31	58.45	SSN, 3.3' E OF E'LY TBC ON "BUSH LANE" 221ST PL. 11' S-SW FROM PP +/-45' S OF S ENTRANCE TO CLOSED BUSINESS LOT. JUST WEST OF CREEK CROSSING.
109	202011.96	1341602.35	57.92	SSNT, 0.8' NE FROM SW EOP. +/- 36' NW FROM SE 61ST. JUST NORTH OF ESI LOT.
110	201592.90	1341924.19	63.12	SFMC, 1 3/4" BRASSY W/NO PUNCH. IN 4X4 CONC POST DOWN 0.4'.
111	201711.12	1342535.09	67.08	SSNT, 2.5' E-SE FROM TBC ON E'LY CORNER SE 62ND ST/ E.L.K SAMMAMISH PKWY SE. +/-, 13.5' NW FROM DMH. +/- 8' SW FROM TSJB.
112	201276.62	1342867.55	68.94	SFNT, PACE TAG & NAIL. IN TRAFFIC ISLAND ALONG N. SIDE E.L.K SAMM. PKWY. S OF HOME DEPOT. N. OF WALGREENS.
113	200946.87	1343113.00	69.33	SSNT, 2' N. OF TBC ON N'LY COR. INTX. OF E. LK SAMM. PKWY SE & SE ISSAQUAH-FALL CITY ROAD. ● NW EDGE OF NW'LY ADA RAMP.
114	200881.86	1343116.87	68.71	SFMC, BRASS TACK SET IN CONC. DOWN 1.25' IN CASE. C/L INTX OF E. LK. SAMM. PKWY & SE ISSAQUAH-FALL CITY RD.
115	200995.15	1343349.01	74.49	SFMC, BRASS PIN/NAIL IN 3X3 CC POST. ●ENTRANCE TO EVERGREEN AUTOBODY. 8.5' S. OF RCE.
116	202221.52	1342038.17	63.19	SSNT, 2.8' NE FROM SW EOP. 5.8' NE FROM NE PVC. ALONG E.L.K. SAMM. PKWY. E'LY SIDE OF ENTRANCE TO BUDGET RENTAL. +/- 14' NW FROM WFHT.
117	202872.93	1341724.01	59.25	SSNT, 2.5' E OF W. RWB ALONG E.L.K.SAMM.PKWY. 4.5' E'LY FROM TSPL ● INTX W/BLACK NUGGET RD.
118	203620.02	1341497.81	54.34	SSNT, SW COR INTX SE 56 ST & E.L.K.SAMM.PKWY. ● SE COR ADA RAMP. +/- 8.5' SE FROM TSPL.
119	203678.94	1341531.49	53.51	SFMC, 1 3/4" BRASSY W/PUNCH IN 4X4 CONC POST DOWN 0.55'. C/L INTX SE 56TH ST & E.L.K.SAMM. PKWY.
126	201411.74	1340646.43	62.65	SSNT, ● N. EOP OF TRAIL. +/- 36' W OF E. END OF FGT/BLUFF.
127	201505.20	1341116.89	64.01	SSNT, 1' N OF S. EOP. 8.5' E'LY OF E'LY SIDE OF FOOT BRIDGE.
128	201689.36	1341258.62	58.68	SSS, 60D NAIL IN WETLAND AREA.
129	201667.45	1341488.34	56.88	SSS, 60D NAIL W/WHISKERS IN WETLAND AREA.
139	201700.77	1341244.36	59.33	SFRC, 1/2" REBAR W/YPC "LS 33487 BOGDON"
140	201695.47	1341486.61	57.11	SFRC, 1/2" REBAR W/OPC "LS 33487 BOGDON"
141	201699.00	1341328.28	58.24	SFRC, 1/2" REBAR W/YPC "LS 33487 BOGDON"
142	201720.85	1341967.64	61.45	SSN, 60D NAIL W/WHISKER 10.5' W OF E. FFW ALONG TRAIL. +/- 60' N OF N. FEA ● TRAIL INTX W/62ND AVE.
143	201998.39	1341901.06	60.52	SSN, 60D NAIL W/WHISKERS. 3' W OF E. FFW ALONG TRAIL.
144	201465.38	1340917.08	61.09	SSNT, SET MAG NAIL & "G&O CONTROL" TAG AT NE COR OF INTX OF TRAIL. W OF BRIDGE, 7' SW OF W'LY POST OF BENCH.
148	201670.36	1342170.40	62.53	SSHT, SET HUB & MAG NAIL ON N. SIDE OF SE 62ND ST. E. OF TRAIL 0.7' NE OF SIGN (LEFT LANE MUST TURN LEFT)
149	202251.01	1341547.87	58.043	SSS, SET MAG NAIL IN MOST N. SIDE OF NORTHERN D/WAY TO PICKERING SUBSTATION NEXT TO PRECISION COLLISION. IN SEAM WHERE ASPHALT MEETS BACK OF WALK.
151	203295.57	1341677.30	55.78	SFNT, "PACE" TAG & NAIL. 0.9' W. OF E. BACK OF WALK OF E. LAKE SAMMAMISH PARKWAY. IN FRONT OF BARTELLS. +/- 7.5' SW FROM LIGHT POLE.
152	203650.88	1341203.42	55.45	SSN, MAG NAIL IN TOP BACK OF CURB ALONG S. SIDE OF SE 56TH ST. 13.5' E. OF E. SIDE ENTRANCE TO CHEVRON/BROWN BEAR. 6.5' SW FROM DCB.
153	202840.64	1341670.30	58.21	SSNT, 1' E. OF W. EDGE OF ASPHALT ALONG TRAIL. +/- 28' S. OF EXTENDED CENTERLINE OF BLACK NUGGET RD. +/- 48' N-NW FROM 14" BIRCH TREE.
154	202442.81	1341872.70	64.59	SSNT, 3' E. OF W. EDGE OF ASPHALT. 4.5' NE FROM END OF GUARD RAIL. 6' S. OF GAS VALVE.
155	202308.56	1341808.61	59.75	SSNT, 1' E. OF W. EDGE OF ASPHALT ALONG TRAIL. +/- 50' S. OF S. PROP/FENCE LINE TO PRECISION COLLISION.
156	201637.26	1342174.80	61.70	SSRC, 4' S. OF S. EDGE OF ASPHALT. ALONG 62ND.
157	201664.50	1341989.77	61.78	SSNT, 5' S. OF E'LY BOLLARD ● END OF TRAIL. N. SIDE OF 62ND ST. 4.5' W. OF E'LY END OF WOOD FENCE.
158	202112.56	1341958.97	61.96	SSN, PK NAIL +/- 15' S. OF KEYPAD INSIDE STORAGE FACILITY. 0.5' E. OF W. EDGE OF ASPHALT IN FRONT OF BAY #507.
159	201851.57	1342008.73	62.11	SSN, 1' W. OF E. EDGE OF ASPHALT. +/- 7' NW FROM W. END OF CHAIN LINK FENCE AND GATE POST.
160	201916.16	1342115.48	63.49	SSN
161	202919.01	1341941.65	62.04	SSNT, E. SIDE OF BLACK NUGGET RD. 17.5' S-SW OF 25MPH SIGN AT CENTER OF SIDEWALK IN SEAM.

THE RIGHT-OF-WAY AND/OR PROPERTY LINES  
SHOWN HEREON ARE BASED ON AVAILABLE  
INFORMATION, NOT ON A SURVEYED LOCATION  
AND ARE ONLY APPROXIMATE.



		<b>Gray &amp; Osborne, Inc.</b> CONSULTING ENGINEERS 791 DEXTER AVENUE NORTH, SUITE 200 SEATTLE, WASHINGTON 98109 • (206) 284-0860	
DATE: JAN. 2014	SCALE: NOTED	DRAWN: A.A.J.	CHECKED: C.B.W.
		APPROVED: B.L.S.	
PRELIMINARY NOT FOR CONSTRUCTION		REVISION	DATE
		No.	APPD
 			
CITY OF ISSAQUAH KING COUNTY EAST LAKE SAMMAMISH PARKWAY SE IMPROVEMENTS		SURVEY CONTROLS	
SHEET: 2			
OF: XX			
JOB NO.: 13570			
DWG: SV_CTRL			

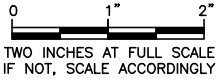
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GENERAL NOTES:

1. ALL MATERIALS AND WORKMANSHIP SHALL BE FURNISHED AND SUPPLIED IN ACCORDANCE WITH THE 2014 WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION AND CITY OF COVINGTON PUBLIC WORKS STANDARDS UNLESS OTHERWISE SPECIFICALLY NOTED.
2. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT AND COORDINATE WITH ALL UTILITY COMPANIES IN ORDER TO ASSURE THAT ALL LINES, PIPES, POLES AND OTHER APPURTENANCES ARE PROPERLY LOCATED, SECURED, AND/OR PROTECTED. BURIED UTILITIES (WHERE KNOWN) ARE SHOWN IN THEIR APPROXIMATE LOCATION. THE CONTRACTOR SHALL HAVE UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. NOTIFY THE UNDERGROUND UTILITIES LOCATE CENTER: 1-800-424-5555.
3. THE CONTRACTOR SHALL HAVE A COPY OF THESE PLANS, ANY ADDENDA, CHANGE ORDERS AND THE CONTRACT SPECIFICATIONS ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
4. THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ENGINEER IN THE EVENT OR DISCOVERY OF UNSUITABLE SOILS OR HIGH GROUND WATER CONDITIONS OR DISCREPANCIES FROM THE PLANS.
5. WHEREVER PLANS REFER TO "SAWCUT" OF ASPHALT CONCRETE PAVEMENT OR OIL MAT, OR CONCRETE SURFACE, THE CONTRACTOR SHALL PERFORM A "NEAT LINE CUT" PER SPECIFICATIONS.
6. CATCH BASINS AND CURB INLETS AT FLOWLINES HAVE BEEN SHOWN IN GENERAL WITH A RELATIVE STATION AND OFFSET. THE INTENT OF THIS PROJECT IS TO LOCATE THE CATCH BASINS AND CURB INLETS IN THE FLOWLINE AT THEIR RESPECTIVE ELEVATIONS.
7. THE CONTRACTOR SHALL MAINTAIN A CLEAN LEGIBLE SET OF RECORD DRAWINGS AND PROVIDE A SET TO THE OWNER PRIOR TO DEMOBILIZATION OF THE SITE. SEE SPECIFICATIONS.

EAST LAKE SAMMAMISH CONSTRUCTION CENTERLINE ALIGNMENT TABLE									
ANGLE PT.	P.I. STATION	NORTHING	EASTING	DISTANCE P.I. TO P.I.	BEARING	RADIUS	TANGENT	LENGTH	DELTA
PI1	0+00.00	200881.86	1343116.87	1904.96	N 38° 11' 35" W				
PC2	19+04.96	202379.02	1341939.01						
PI2		202821.92	1342502.01			716.34	147.24	290.44	23° 13' 49.00"
PT2	21+95.40	202636.99	1341809.95						
				1078.51	N 26° 34' 40.5" W				
PI3	32+73.91	203678.94	1341531.49						
				126.07	N 14° 57' 46" W				
PI4	34+00.00	203800.75	1341498.94						

SE 62ND STREET CONSTRUCTION CENTERLINE ALIGNMENT TABLE									
ANGLE PT.	P.I. STATION	NORTHING	EASTING	DISTANCE P.I. TO P.I.	BEARING	RADIUS	TANGENT	LENGTH	DELTA
PI1	120+50.00	201650.81	1342033.67	158.33	N 88° 50' 50.9" W				
PC2	122+08.33	201653.99	1342191.98						
PI2		200279.27	1342219.63			1375.00	63.08	126.07	05° 15' 11.09"
PRC	123+34.40	201650.75	1342317.96	126.01	S 88° 31' 33.5" W				
PI3		201830.29	1342330.83			180.00	69.63	132.87	42° 17' 38.37"
PT3	124+67.27	201688.82	1342442.12						
				149.68	N 72° 57' 12.8" W				
P4	126+16.95	201781.37	1342559.76						





Gray & Osborne, Inc.

CONSULTING ENGINEERS

701 DEVER AVENUE NORTH, SUITE 200

SEATTLE, WASHINGTON 98109 • (206) 264-0860

DATE: JAN. 2014	SCALE: NOTED	DRAWN: A.A.J.	CHECKED: C.B.W.	APPROVED: B.L.S.
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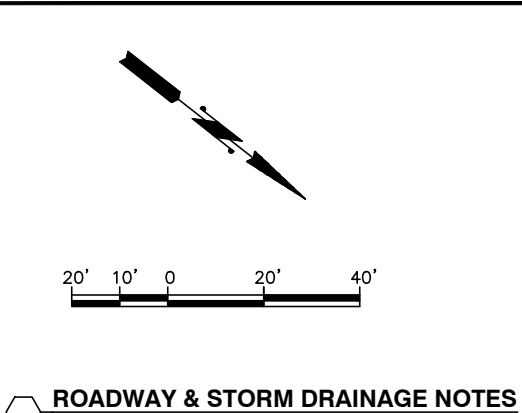
CITY OF ISSAQUAH  
KING COUNTY

EAST LAKE SAMMAMISH PARKWAY SE  
IMPROVEMENTS

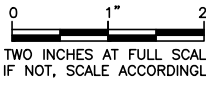
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CENTERLINE ALIGNMENT TABLES


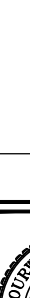

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OF: XX
JOB NO.: 13570
DWG: ALIGNMENT



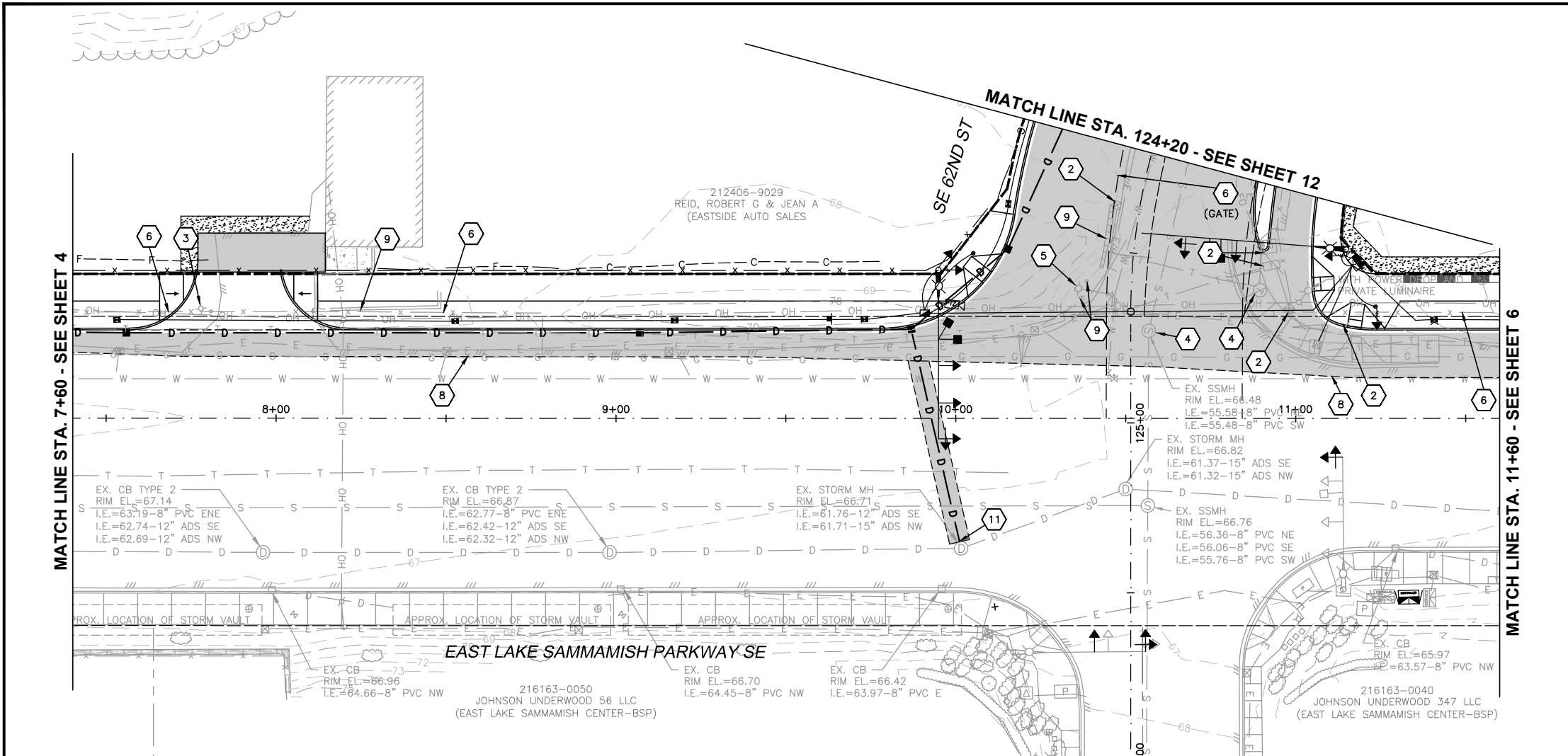
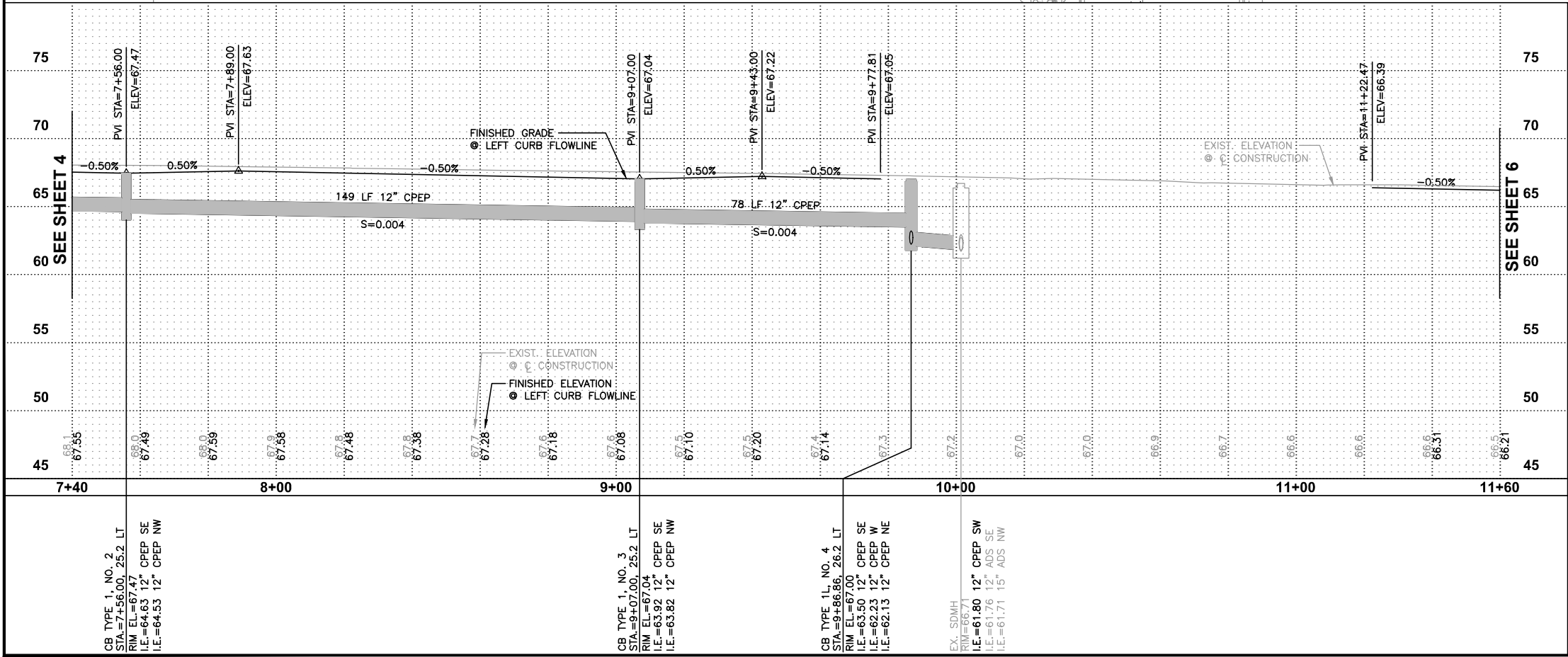


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 <b>Gray &amp; Osborne, Inc.</b> CONSULTING ENGINEERS 701 DEXTER AVENUE NORTH, SUITE 200 SEATTLE, WASHINGTON 98109 • (206) 284-0860	
DATE: JAN. 2014	H: 1"=20'
SCALE: V: 1"=5'	
DRAWN: C.B.W.	
CHECKED: C.B.W.	
APPROVED: B.L.S.	
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No.	REVISION
DATE	APPD
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<b>CITY OF ISSAQUAH</b> KING COUNTY WASHINGTON <b>EAST LAKE SAMMAMISH PARKWAY SE IMPROVEMENTS</b>  <b>PLAN AND PROFILE</b> <b>STA. 3+20 TO 7+40</b>	
SHEET: <b>4</b>	
OF: <b>XX</b>	
JOB NO.: 13570	
DWG: ELSP_PP	

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## ROADWAY & STORM DRAINAGE NOTES

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CITY OF ISSAQUAH  
KING COUNTY  
WASHINGTON

EAST LAKE SAMMAMISH PARKWAY SE  
IMPROVEMENTS

PLAN AND PROFILE  
STA. 7+40 TO 11+60

SHEET: 5  
OF: XX  
JOB NO.: 13570  
DWG: ELSP\_PP

DATE: JAN. 2014  
H: 1"=20'  
SCALE: V: 1"=5'

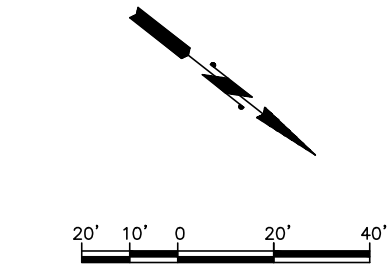
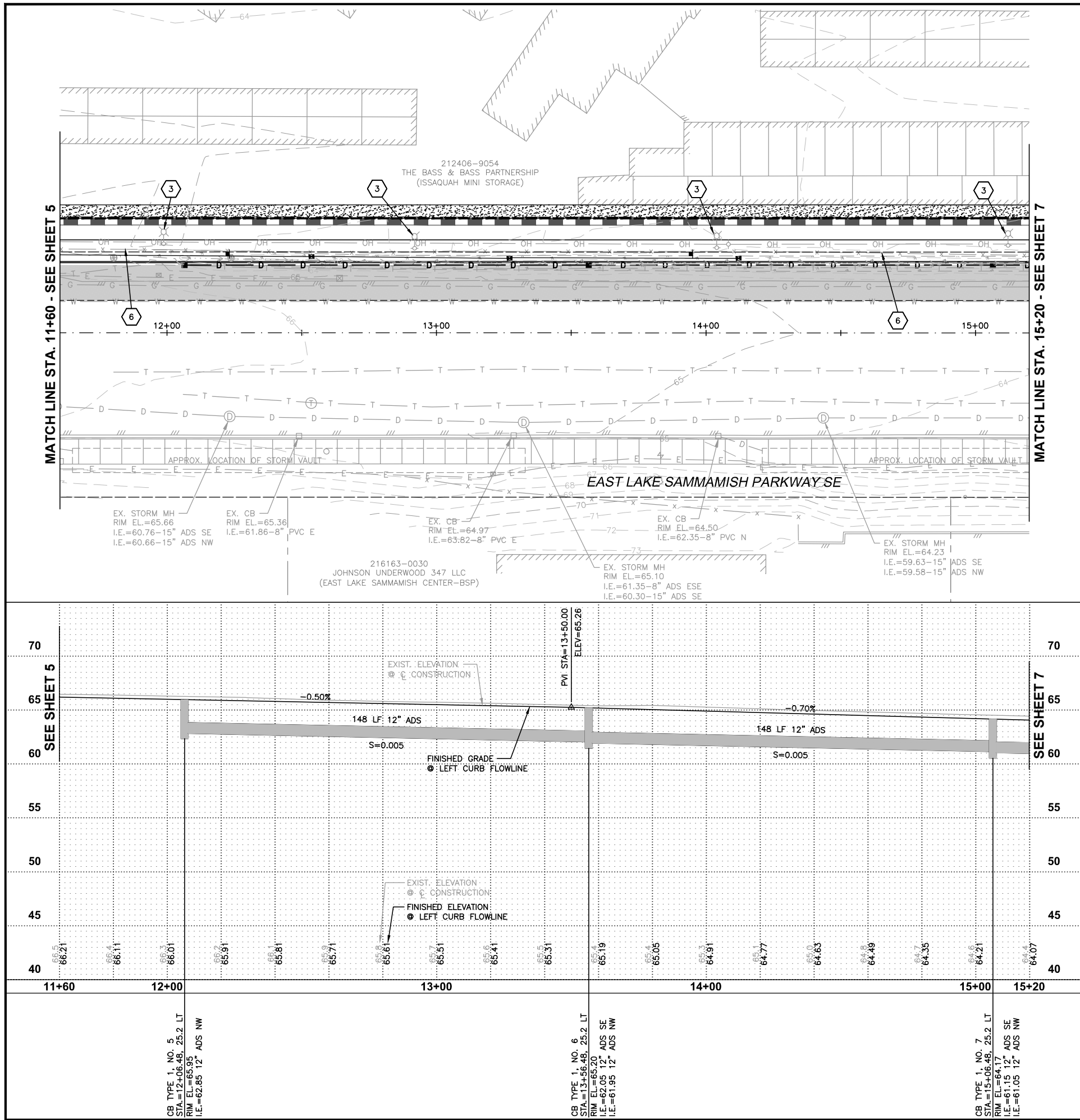
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APPROVED: B.L.S.

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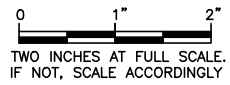
Gray & Osborne, Inc.  
CONSULTING ENGINEERS  
701 DEVER AVENUE NORTH, SUITE 200  
SEATTLE, WASHINGTON 98109 • (206) 264-0860





## ROADWAY & STORM DRAINAGE NOTES

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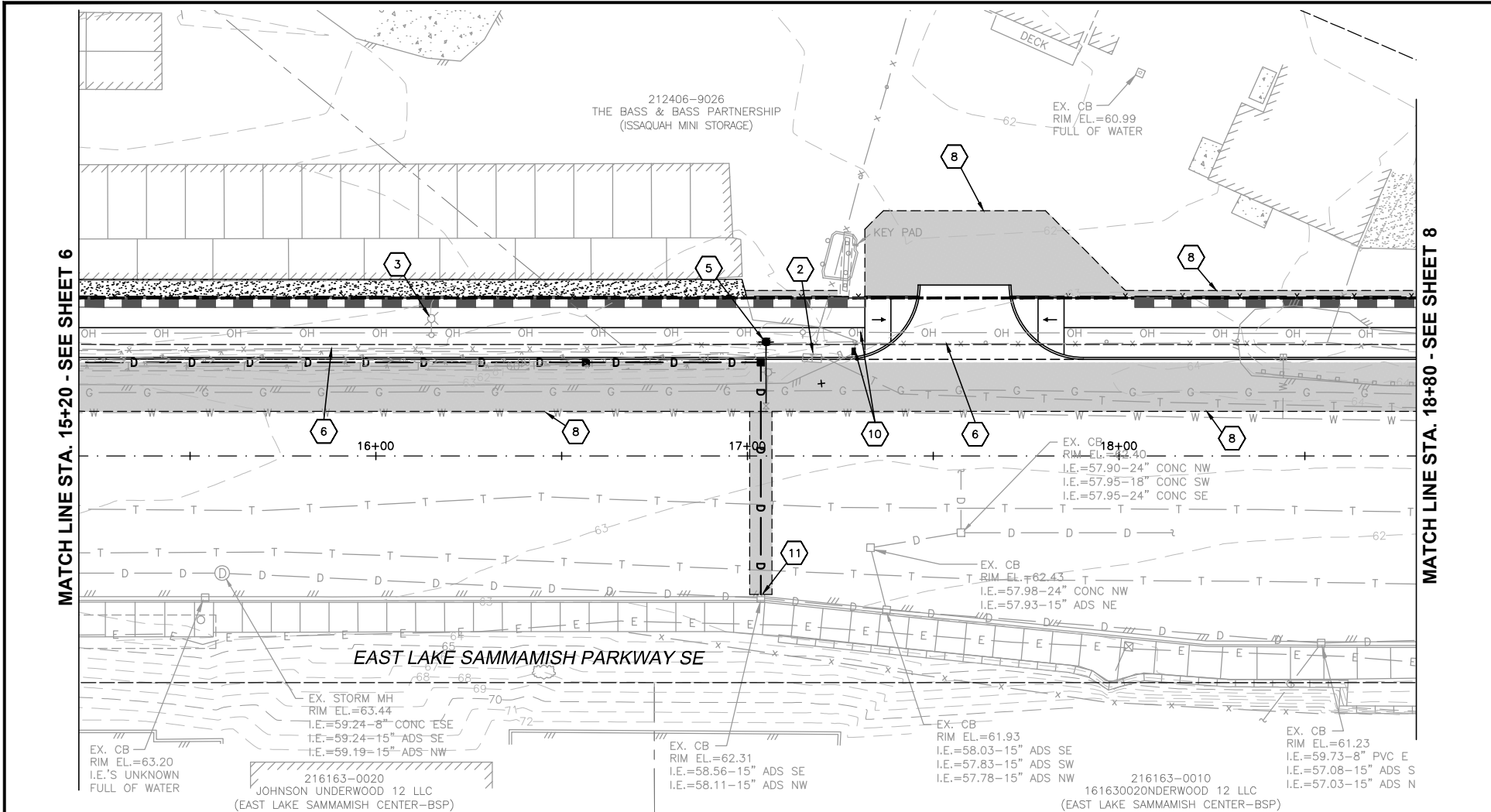
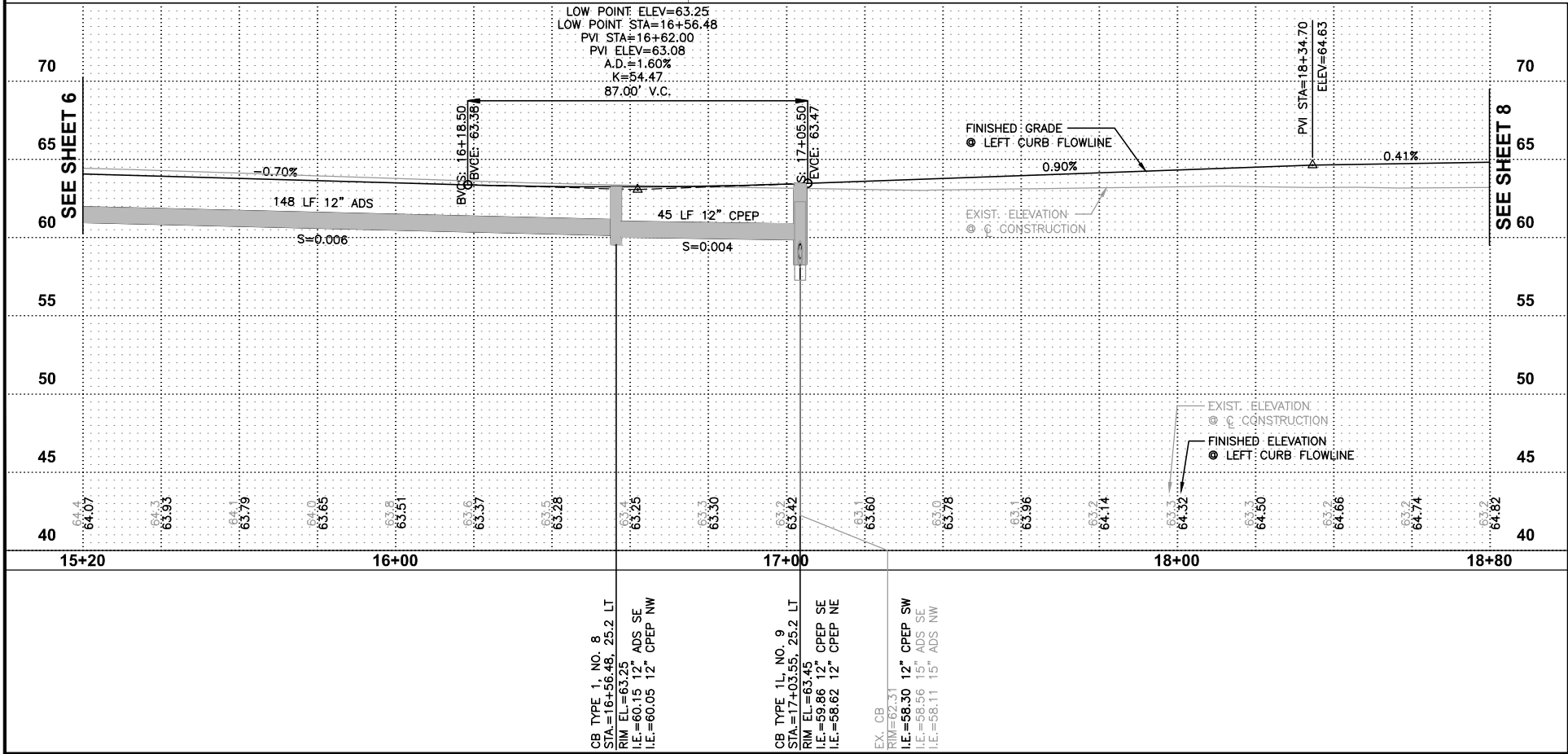


**CITY OF ISSAQUAH**  
KING COUNTY  
WASHINGTON

**EAST LAKE SAMMAMISH PARKWAY SE  
IMPROVEMENTS**


**PLAN AND PROFILE**  
**STA. 11+00 TO 15+20**

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# ROADWAY & STORM DRAINAGE NOTES

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DATE: JAN. 2014	H: 1"=20'	SCALE: V: 1"=5'	DRAWN: C.B.W.	CHECKED: C.B.W.	APPROVED: B.L.S.
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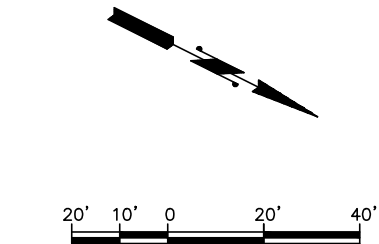
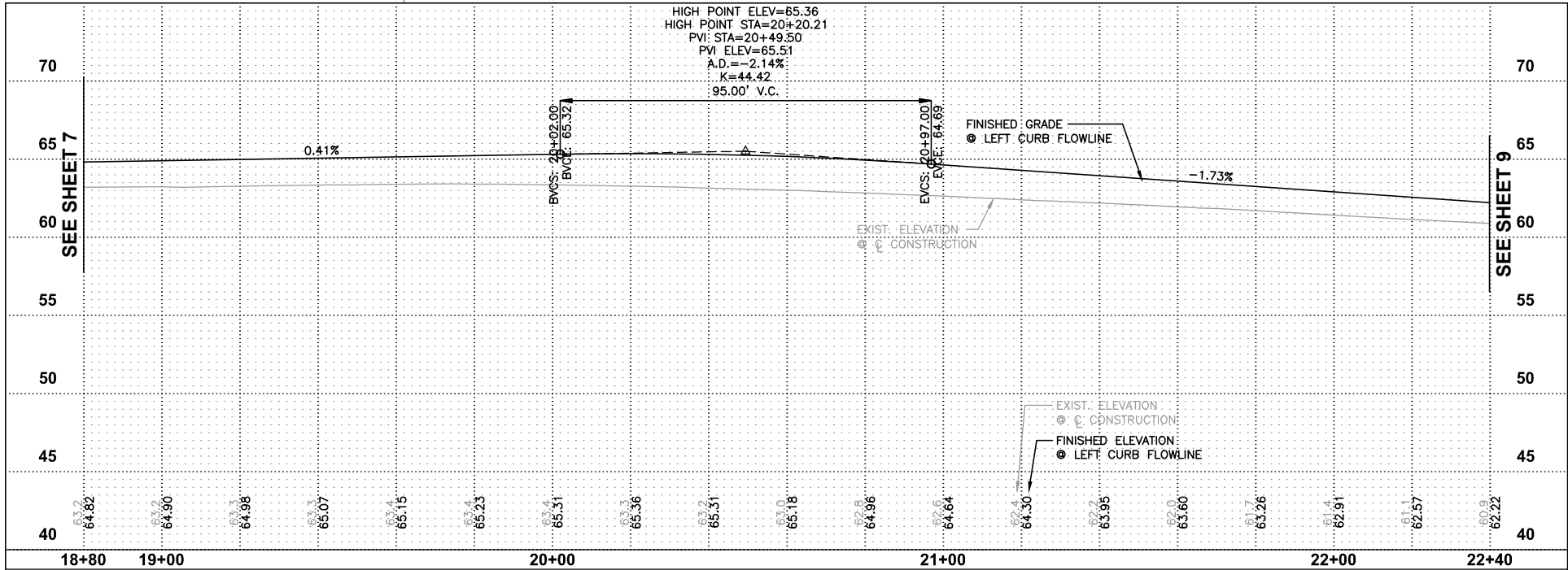
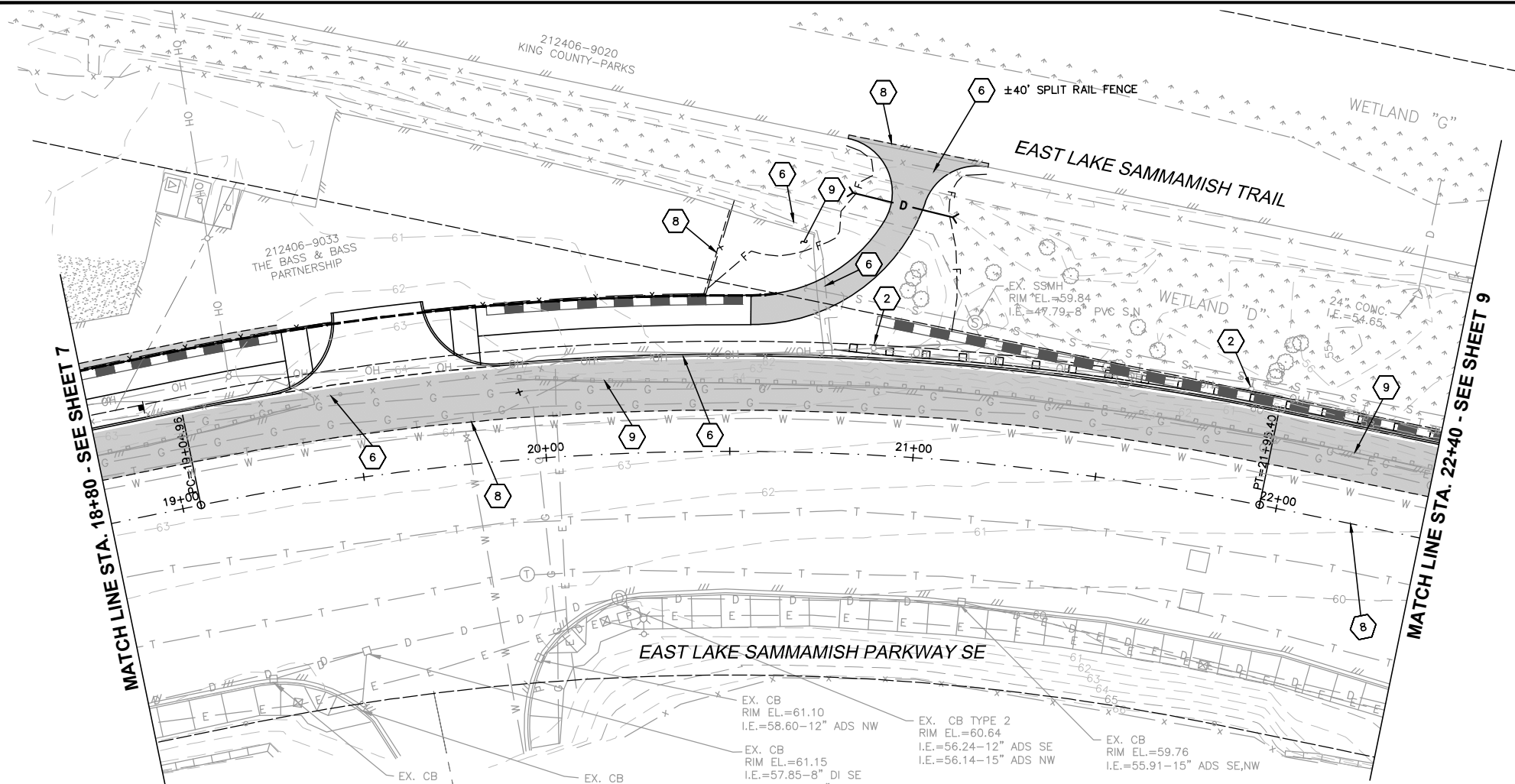


**CITY OF ISSAQUAH**  
KING COUNTY WASHINGTON  
**EAST LAKE SAMMAMISH PARKWAY SE IMPROVEMENTS**  
**PLAN AND PROFILE**  
STA. 15+20 TO 18+80

SHEET: 7
OF: XX
JOB NO.: 13570
DWG: ELSP_PP



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CITY OF ISSAQUAH  
KING COUNTY  
WASHINGTON  
EAST LAKE SAMMAMISH PARKWAY SE  
IMPROVEMENTS  
PLAN AND PROFILE  
STA. 18+80 TO 22+40

SHEET: 8  
OF: XX

JOB NO.: 13570  
DWG: ELSP\_PP

DATE: JAN. 2014  
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APPROVED: B.L.S.

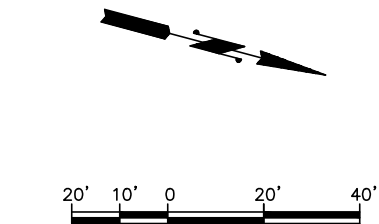
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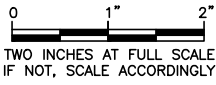
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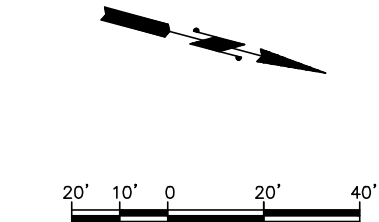
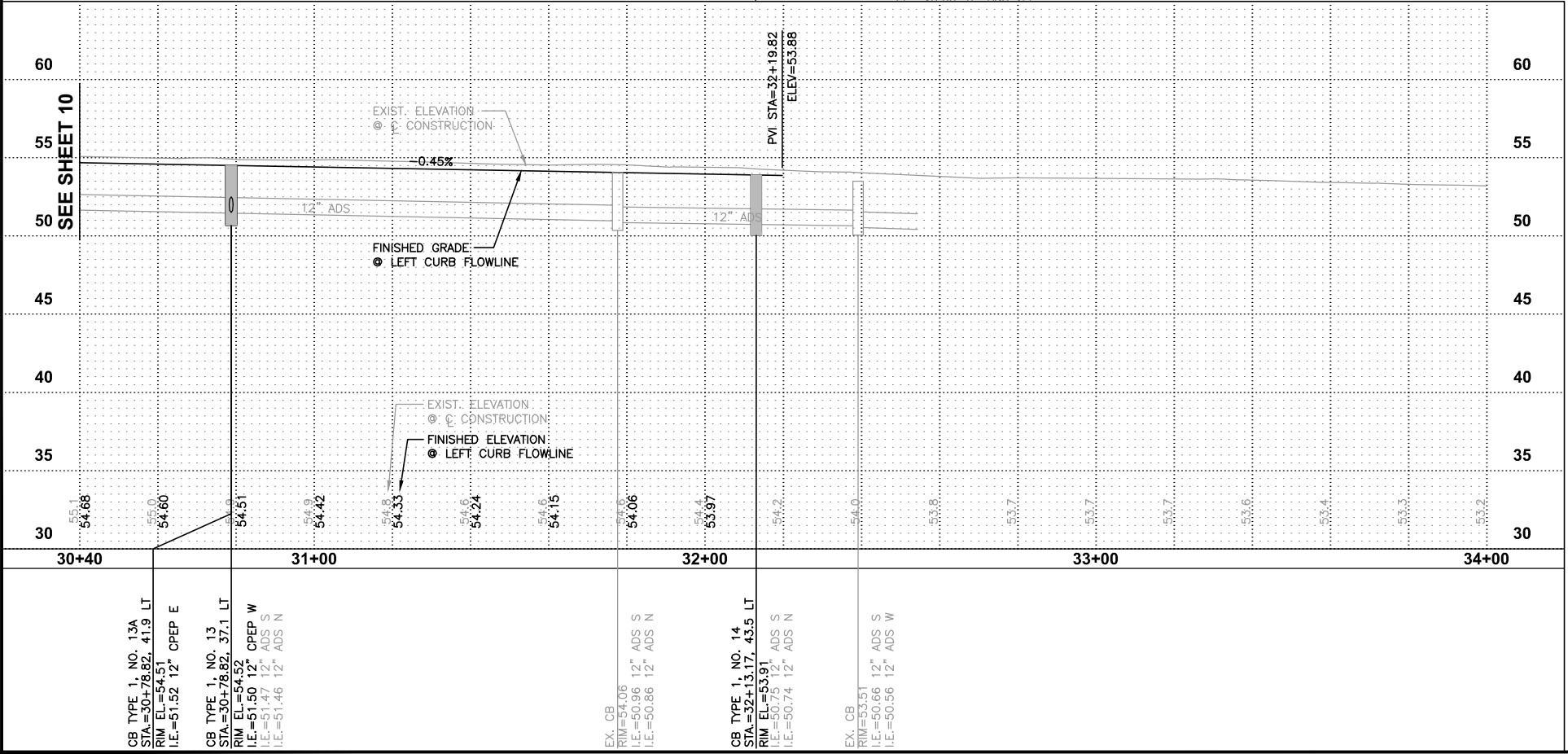
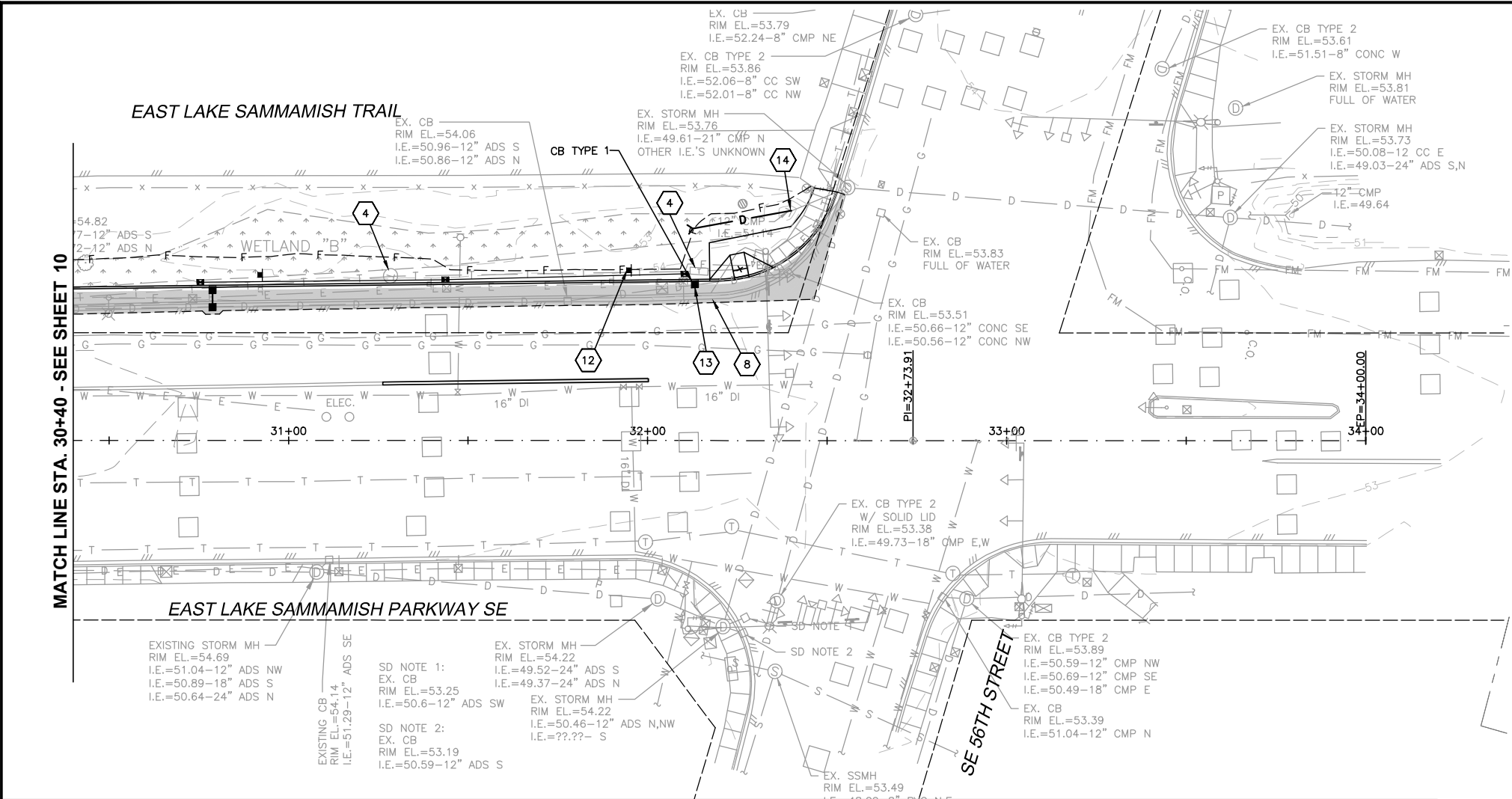




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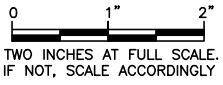


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DATE: JAN. 2014	H: 1"=20'	DRAWN: C.B.W.	CHECKED: C.B.W.	APPROVED: B.L.S.
SCALE: V: 1"=5'				

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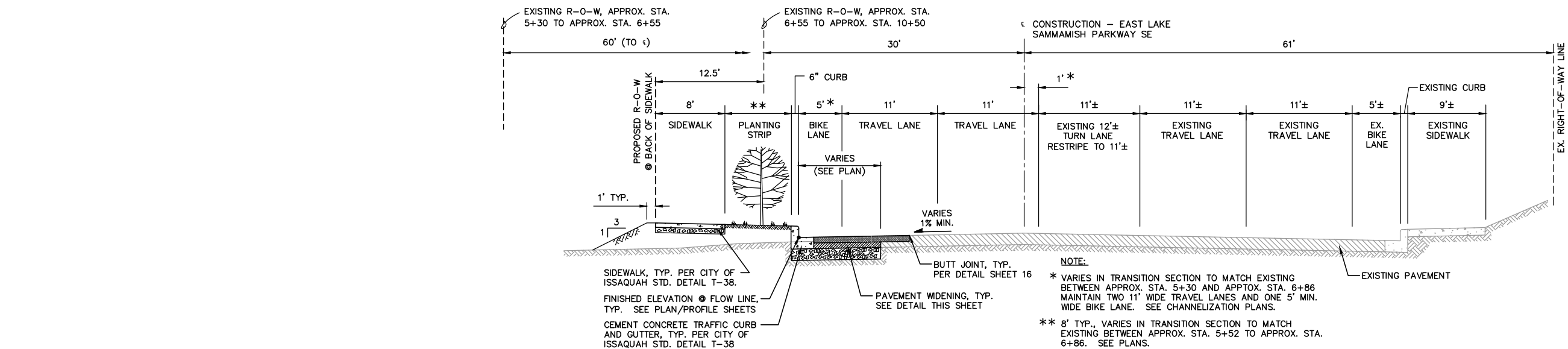
CITY OF ISSAQUAH  
KING COUNTY WASHINGTON  
EAST LAKE SAMMAMISH PARKWAY SE  
IMPROVEMENTS  
PLAN AND PROFILE  
STA. 30+00 TO 34+00

SHEET: 11
OF: XX
JOB NO.: 13570
DWG: ELSP_PP



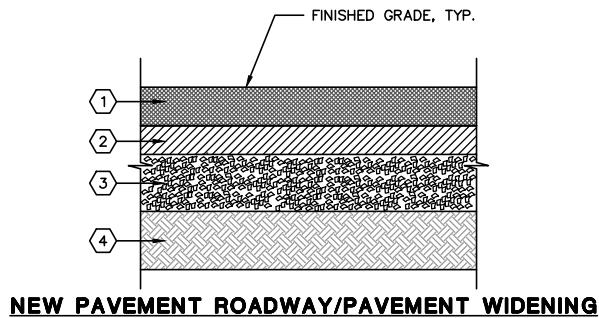


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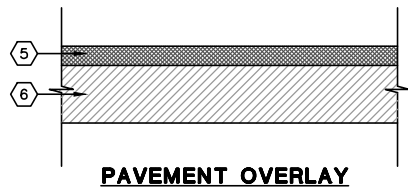


**TYPICAL CROSS-SECTION: EAST LAKE SAMMAMISH PARKWAY SE**  
**APPROX. STATION 5+30 TO APPROX. STATION 10+50**

NOT TO SCALE

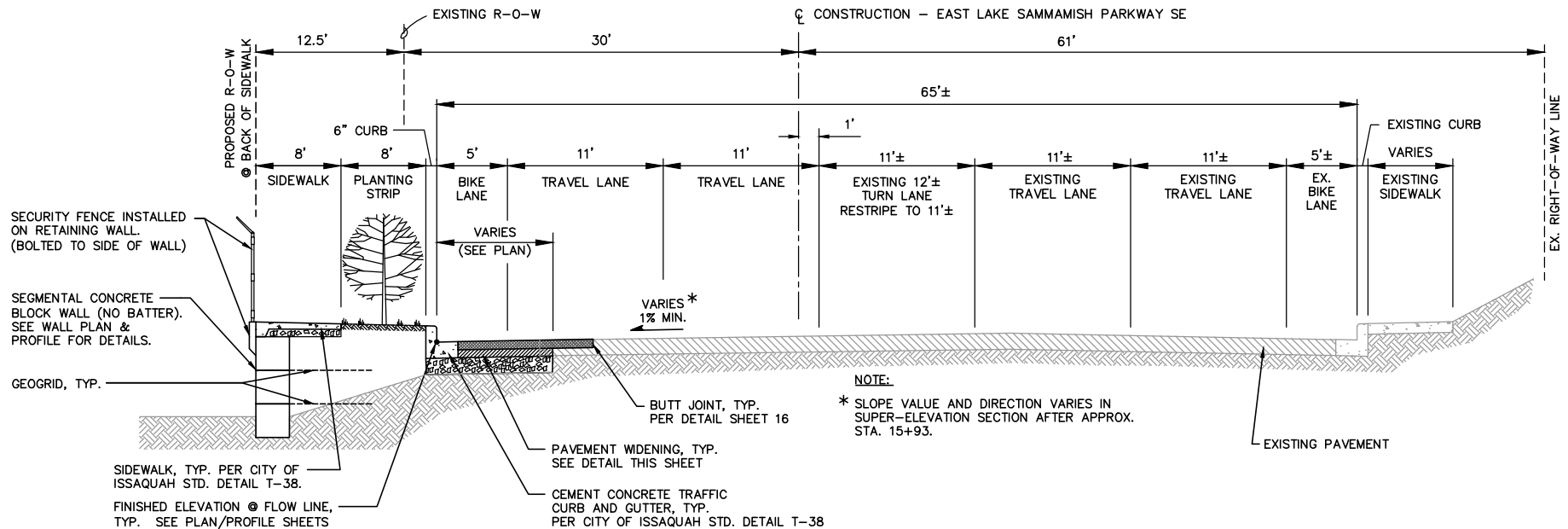


- 1 3" COMPACTED DEPTH HMA CLASS 1/2".
- 2 4" COMPACTED DEPTH ASPHALT TREATED BASE
- 3 9" COMPACTED DEPTH CRUSHED SURFACING BASE COURSE
- 4 SUITABLE NATIVE, AND/OR GRAVEL BORROW.



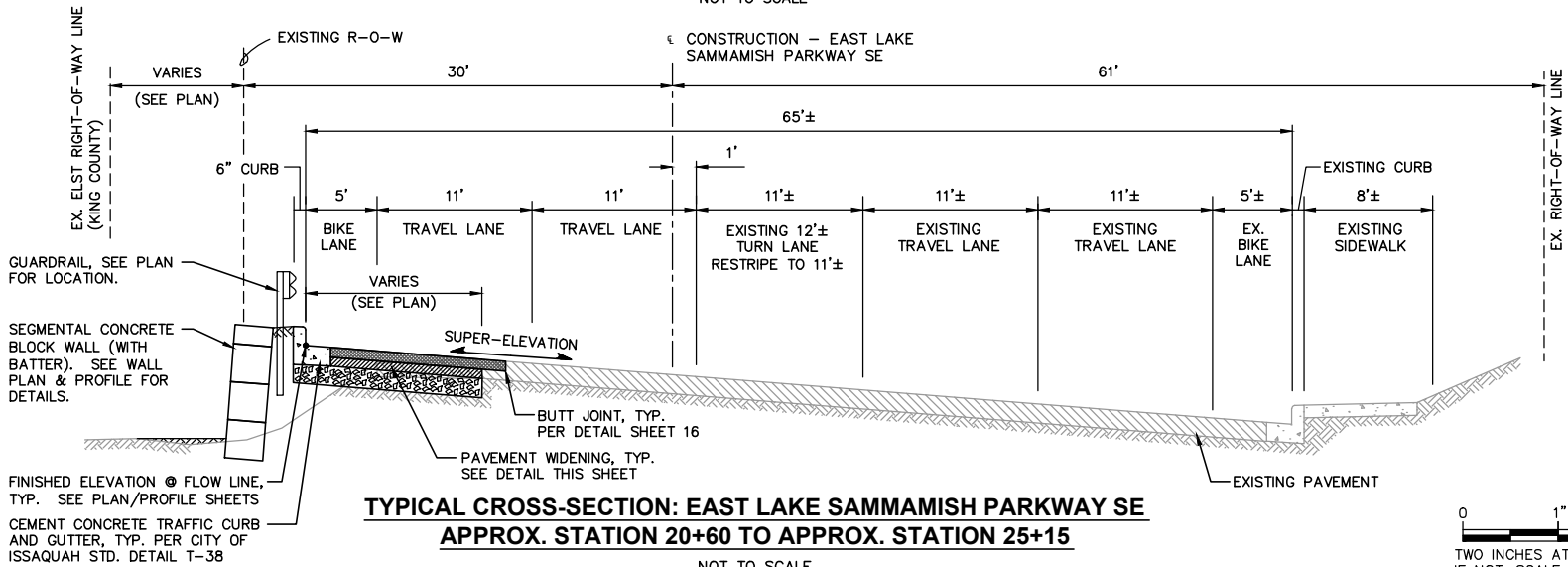
- 5 MIN. 3" COMPACTED DEPTH HMA CLASS 1/2" (PRELEVEL AS REQUIRED).
- 6 EXISTING ROAD PAVEMENT.

**TYPICAL PAVEMENT SECTIONS**  
NOT TO SCALE



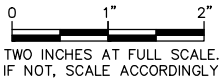
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**APPROX. STATION 10+50 TO APPROX. STATION 20+60**

NOT TO SCALE



**TYPICAL CROSS-SECTION: EAST LAKE SAMMAMISH PARKWAY SE**  
**APPROX. STATION 20+60 TO APPROX. STATION 25+15**

NOT TO SCALE

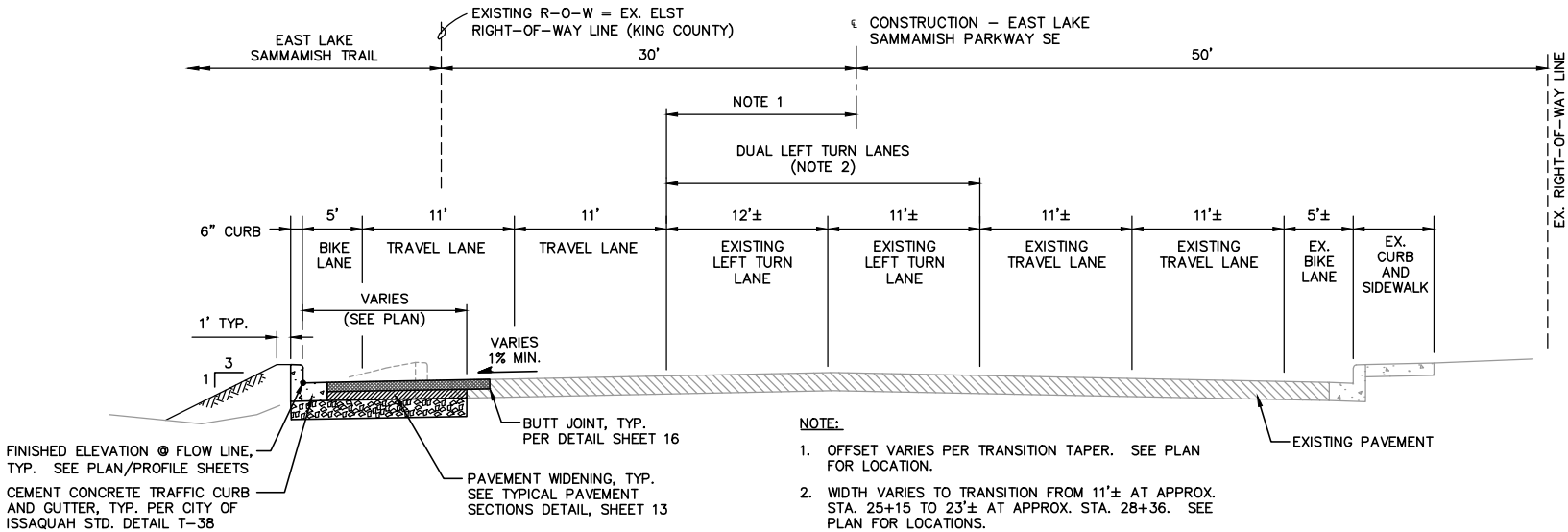


DATE: JAN. 2014	SCALE: NOTED	DRAWN: A.A.J.	CHECKED: C.B.W.	APPROVED: B.L.S.
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No.	REVISION	DATE	APPD
PRELIMINARY NOT FOR CONSTRUCTION			

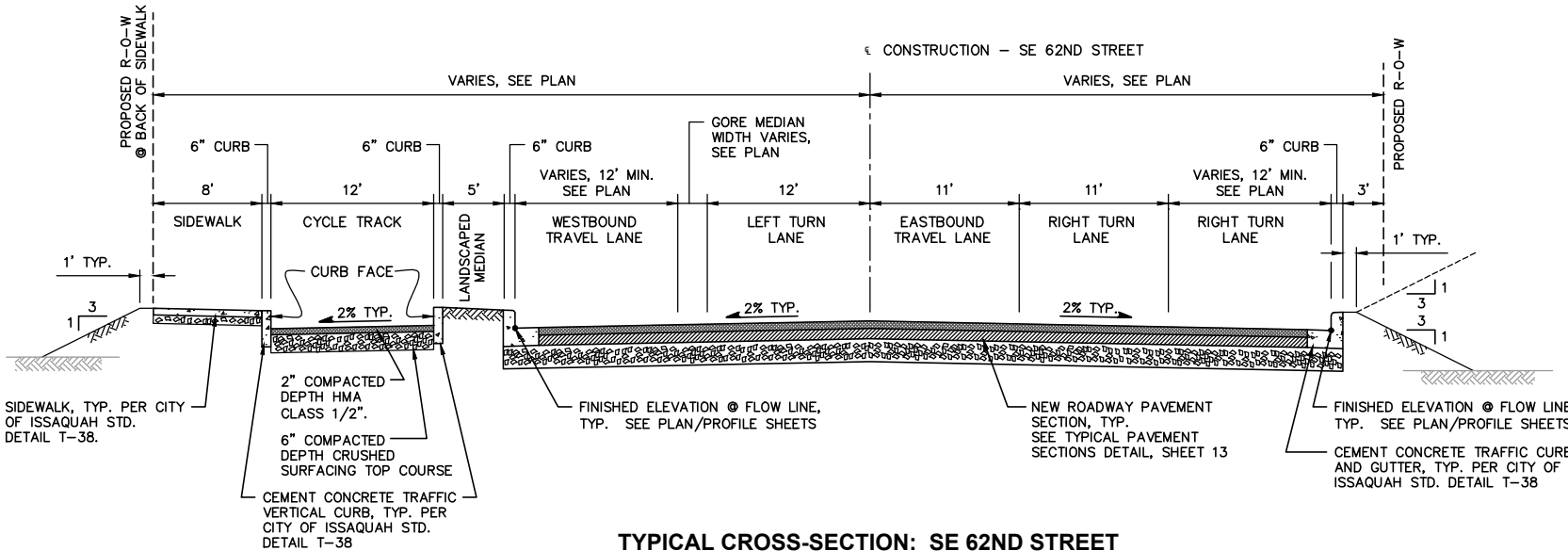


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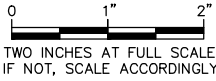
TYPICAL CROSS-SECTION: EAST LAKE SAMMAMISH PARKWAY SE  
APPROX. STATION 25+15 TO APPROX. STATION 32+70

NOT TO SCALE



TYPICAL CROSS-SECTION: SE 62ND STREET  
APPROX. STATION 123+34 TO APPROX. STATION 124+50

NOT TO SCALE



**Gray & Osborne, Inc.**  
CONSULTING ENGINEERS  
701 DEXTER AVENUE NORTH, SUITE 200  
SEATTLE, WASHINGTON 98109 • (206) 264-0860

DATE: JAN. 2014	SCALE: NOTED	DRAWN: Y.B.P.	CHECKED: C.B.W.	APPROVED: B.L.S.
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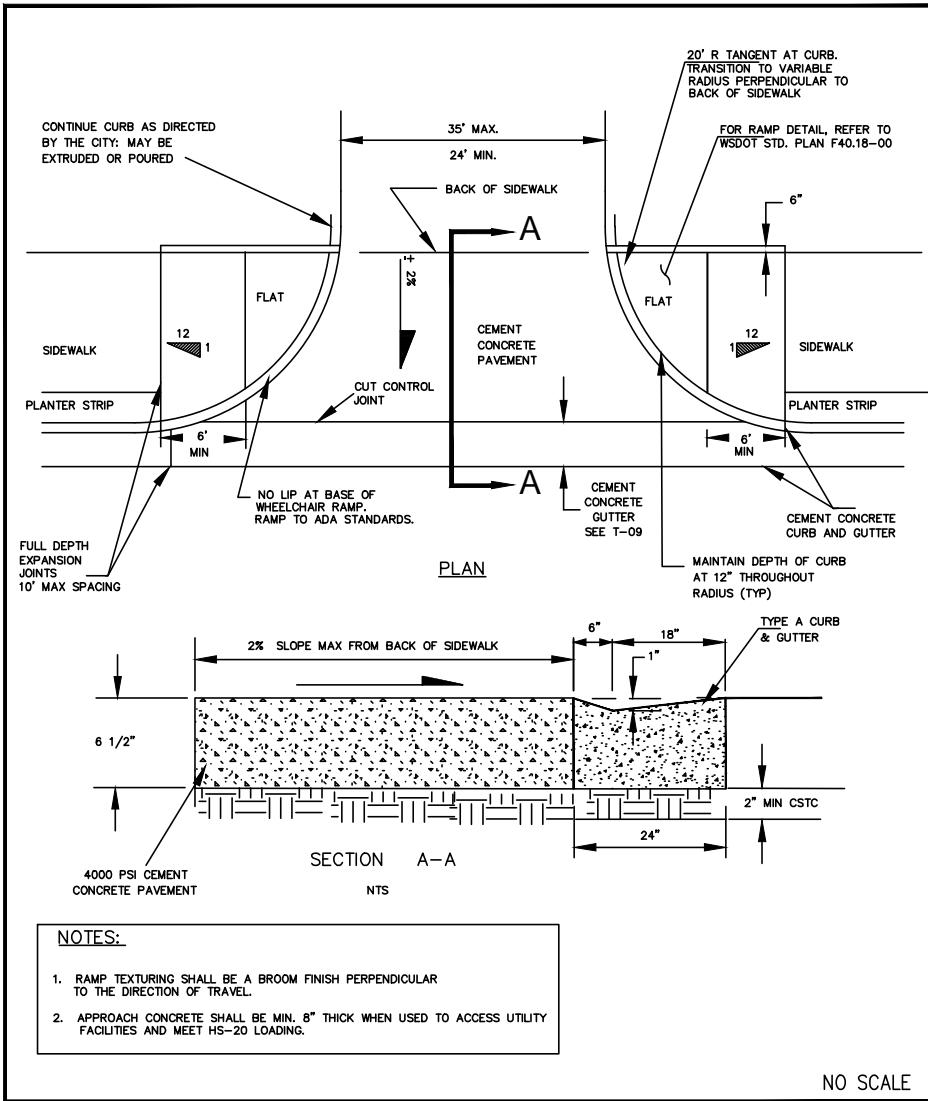
No.	REVISION	DATE	APPD
PRELIMINARY NOT FOR CONSTRUCTION			



CITY OF ISSAQUAH  
KING COUNTY  
EAST LAKE SAMMAMISH PARKWAY SE  
IMPROVEMENTS  
TYPICAL ROADWAY CROSS SECTIONS

SHEET: 14
OF: XX
JOB NO.: 13570
DWG: TYPSEC

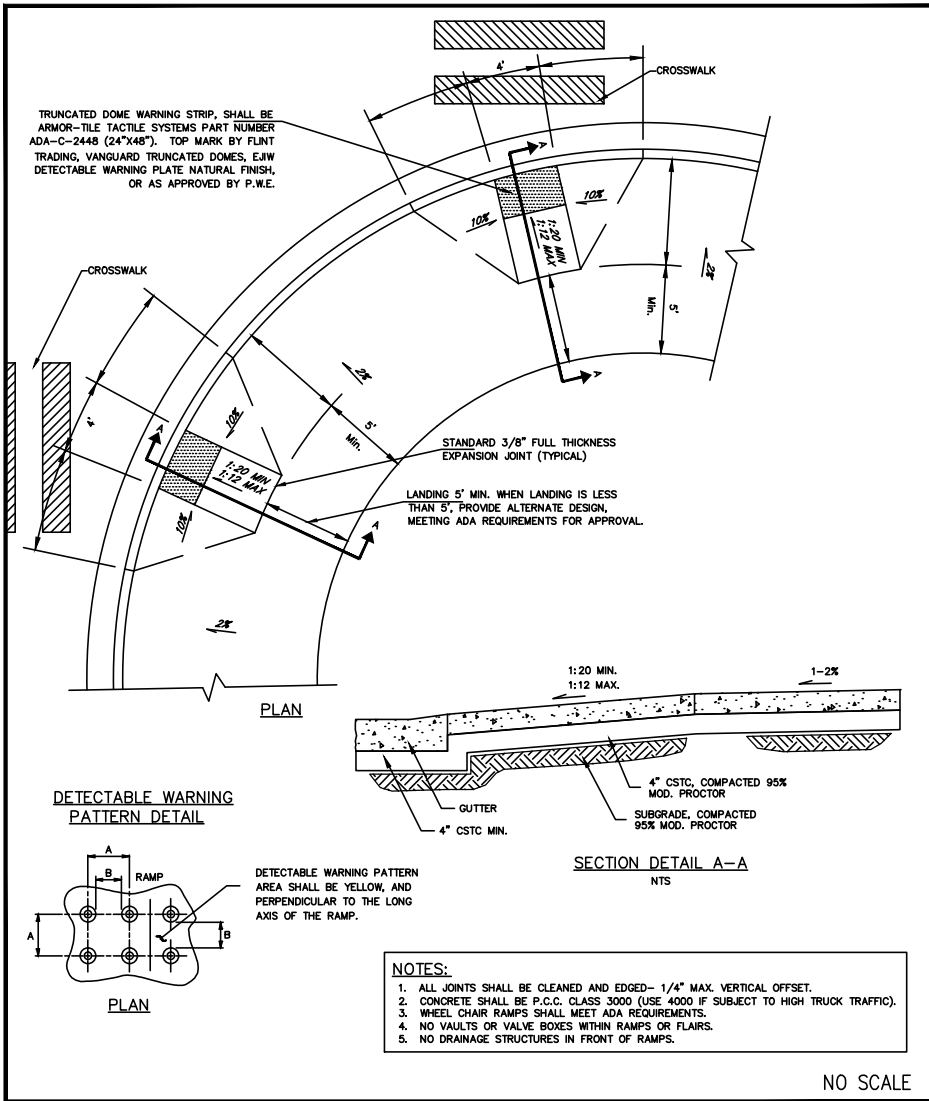
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CITY OF ISSAQUAH  
PUBLIC WORKS DEPARTMENT  
AUGUST 2010

COMMERCIAL AT GRADE DRIVEWAY WITH PLANTER STRIP

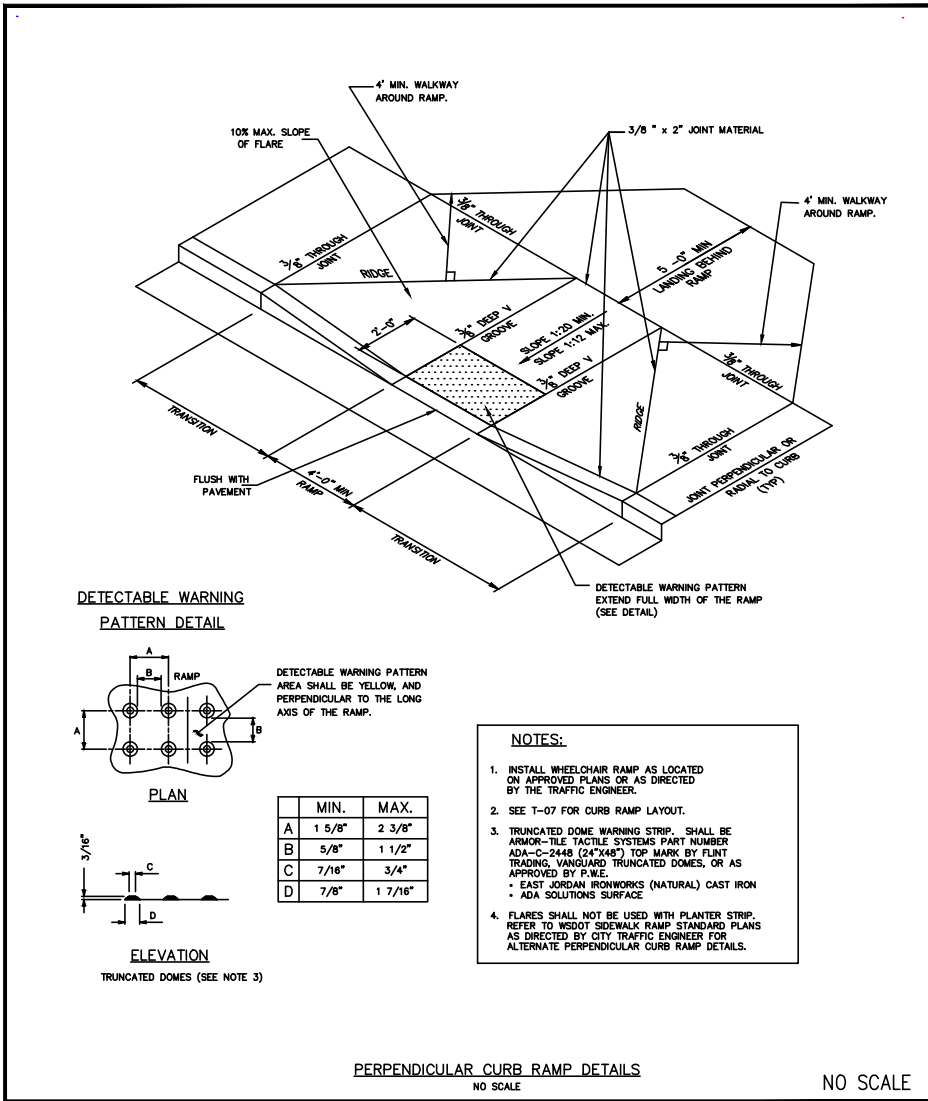
STANDARD DETAIL NO. T-04  
REV:



CITY OF ISSAQUAH  
PUBLIC WORKS DEPARTMENT  
AUGUST 2010

PERPENDICULAR CURB RAMP (1 OF 2)

STANDARD DETAIL NO. T-07  
REV:



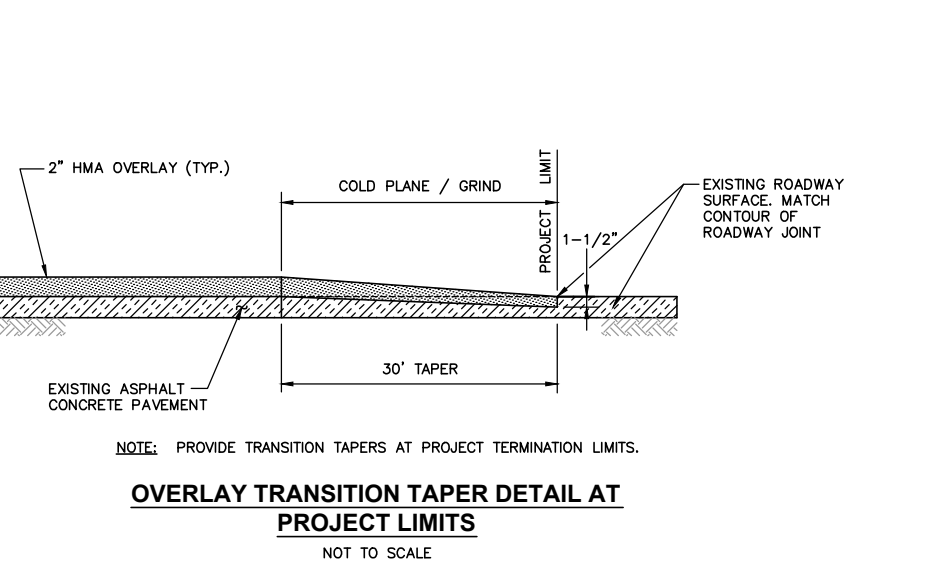
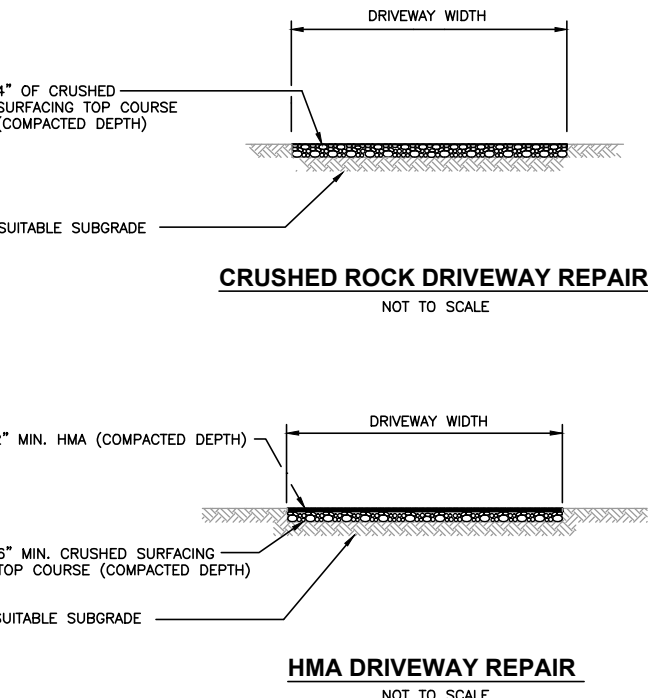
CITY OF ISSAQUAH  
PUBLIC WORKS DEPARTMENT  
AUGUST 2010

PERPENDICULAR CURB RAMP (2 OF 2)

STANDARD DETAIL NO. T-08  
REV:

CONCRETE DRIVEWAY APPROACH								DRIVEWAY REPAIR (BEYOND APPROACH)	
STREET	DRIVEWAY #	STATION	SIDE	"A" (TYPE)	AREA (SY)	RAMP LENGTH LEFT	RAMP LENGTH RIGHT	MATERIAL	AREA (SY)
EAST LAKE SAMMAMISH PARKWAY									

NOTE: CONTRACTOR SHALL CONFIRM ALL DRIVEWAY APPROACH STATIONS AND WIDTHS WITH CONTRACTING AGENCY PRIOR TO INSTALLATION.



Gray & Osborne, Inc.  
CONSULTING ENGINEERS  
701 DEWEY AVENUE NORTH, SUITE 200  
SEATTLE, WASHINGTON 98109 • (206) 264-0860

DATE: JAN. 2014  
SCALE: NOTED  
DRAWN: A.A.J.  
CHECKED: C.B.W.  
APPROVED: B.L.S.

PRELIMINARY  
NOT FOR  
CONSTRUCTION

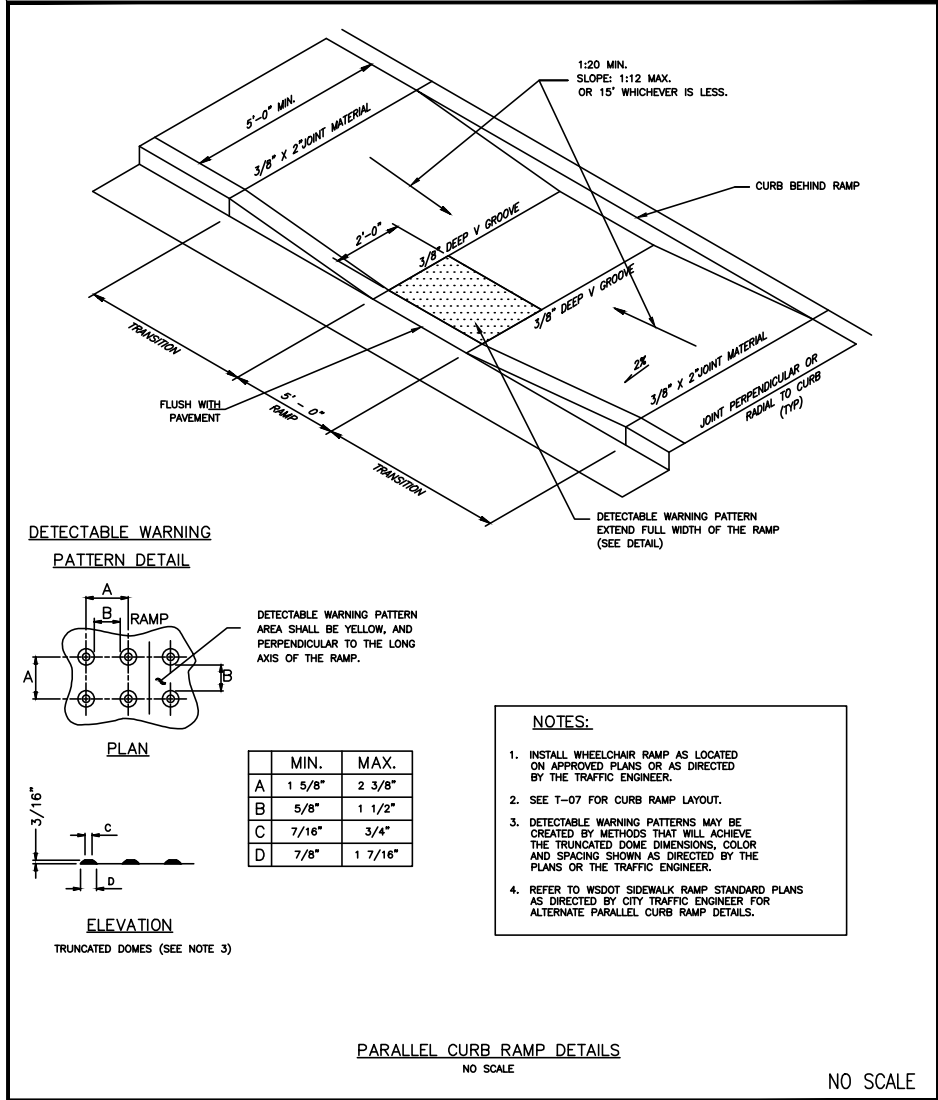
DATE APPD  
REVISION  
No.

CITY OF ISSAQUAH  
KING COUNTY  
WASHINGTON  
EAST LAKE SAMMAMISH PARKWAY SE  
IMPROVEMENTS  
ROADWAY DETAILS

SHEET: 15  
OF: XX  
JOB NO.: 13570  
DWG: ROAD\_DET1



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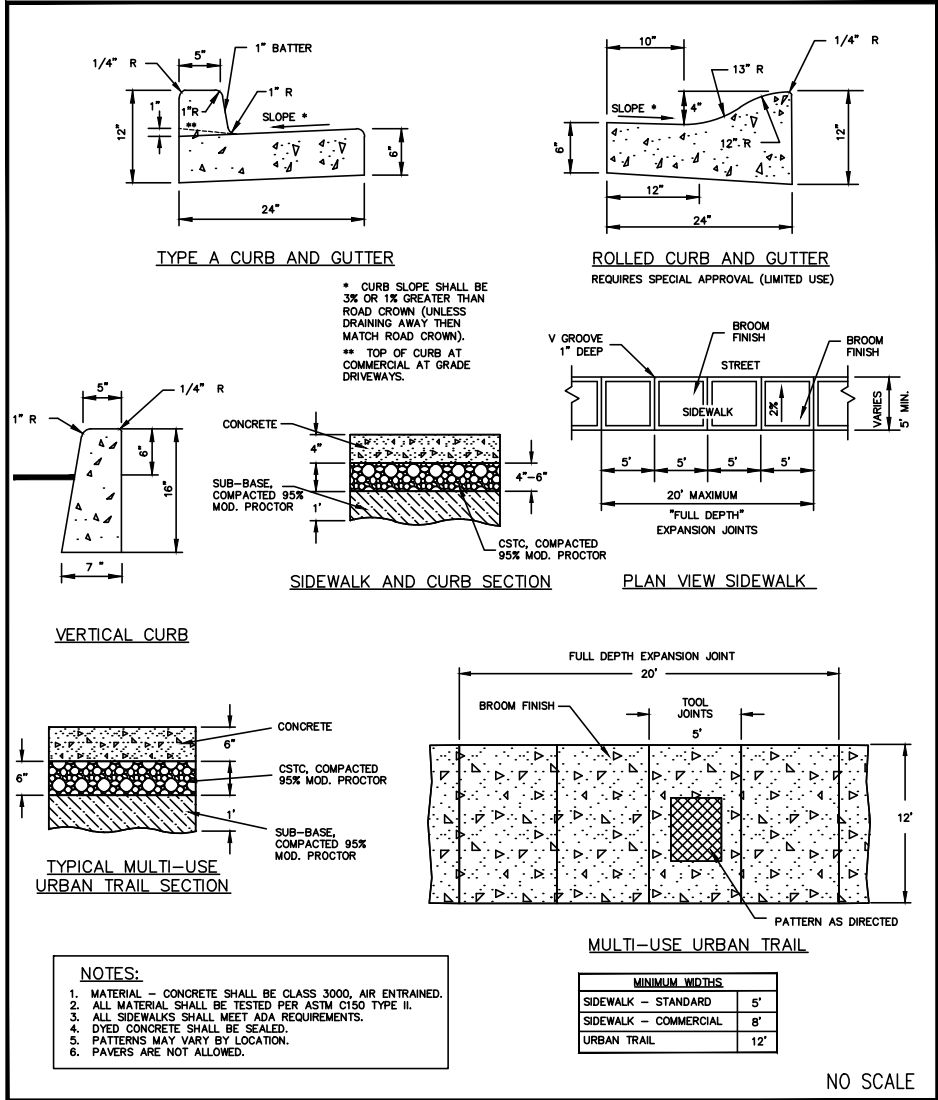
CITY OF ISSAQUAH  
PUBLIC WORKS DEPARTMENT  
AUGUST 2010

BRIAN L. SOUWAINE  
WASHINGTON  
REGISTERED PROFESSIONAL ENGINEER  
EXPIRES: 12-13-2011

**PARALLEL CURB RAMP**

STANDARD  
DETAIL NO.  
**T-09**

REV:



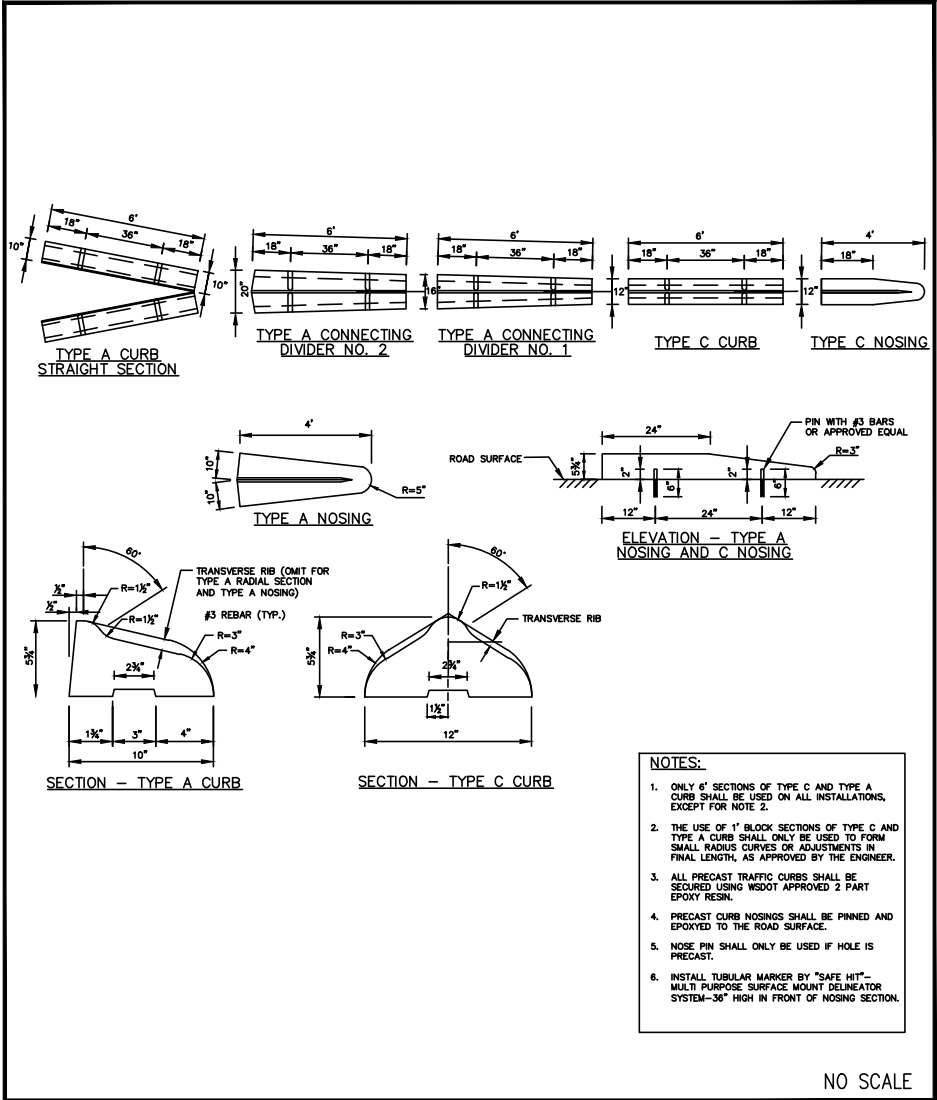
CITY OF ISSAQUAH  
PUBLIC WORKS DEPARTMENT  
AUGUST 2010

BRIAN L. SOUWAINE  
WASHINGTON  
REGISTERED PROFESSIONAL ENGINEER  
EXPIRES: 12-13-2011

**SIDEWALKS/CURBS/URBAN TRAILS**

STANDARD  
DETAIL NO.  
**T-38**

REV:



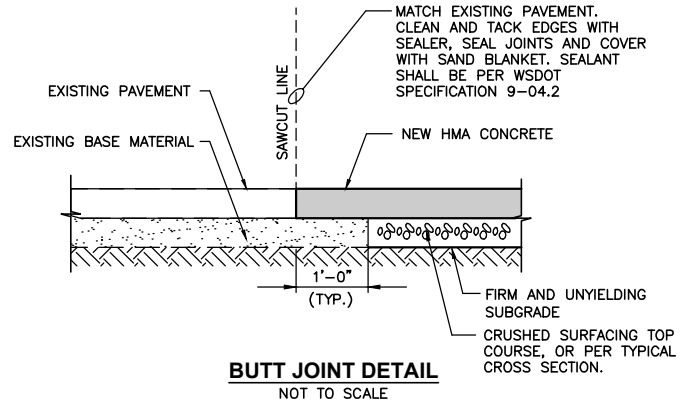
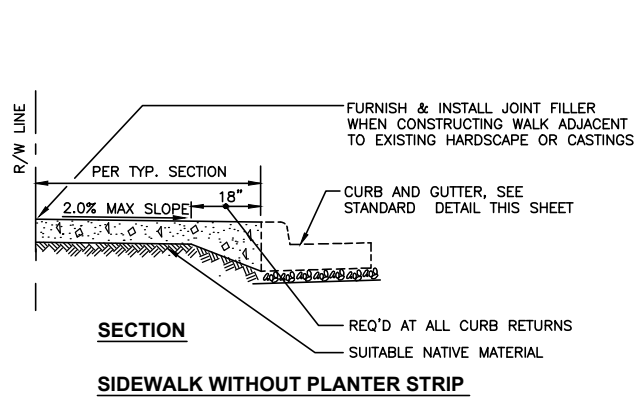
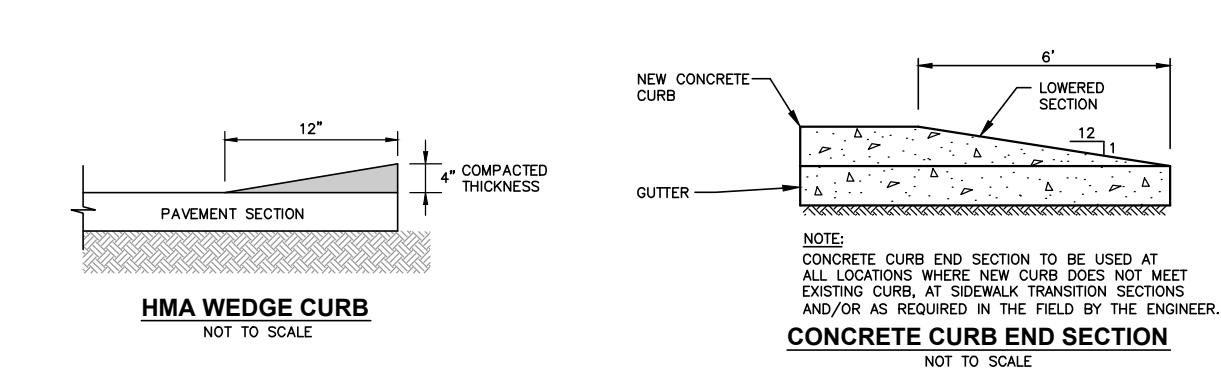
CITY OF ISSAQUAH  
PUBLIC WORKS DEPARTMENT  
AUGUST 2010

BRIAN L. SOUWAINE  
WASHINGTON  
REGISTERED PROFESSIONAL ENGINEER  
EXPIRES: 12-13-2011

**A & C CURBING**

STANDARD  
DETAIL NO.  
**T-39**

REV:



Gray & Osborne, Inc.  
CONSULTING ENGINEERS  
701 DEWEY AVENUE NORTH, SUITE 200  
SEATTLE, WASHINGTON 98109 • (206) 264-0860

DATE: JAN. 2014

SCALE: NOTED

DRAWN: A.A.J.

CHECKED: C.B.W.

APPROVED: B.L.S.

PRELIMINARY  
NOT FOR  
CONSTRUCTION

DATE

APPD

REVISION

No.

BRIAN L. SOUWAINE  
WASHINGTON  
REGISTERED PROFESSIONAL ENGINEER  
EXPIRES: 12-13-2011

CHITKANG MANG  
WASHINGTON  
REGISTERED PROFESSIONAL ENGINEER  
EXPIRES: 12-13-2011

CITY OF ISSAQUAH  
KING COUNTY  
WASHINGTON

EAST LAKE SAMMAMISH PARKWAY SE  
IMPROVEMENTS

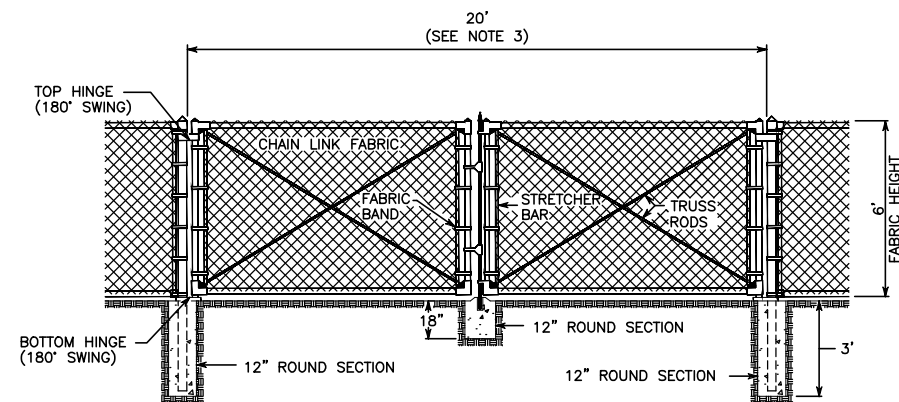
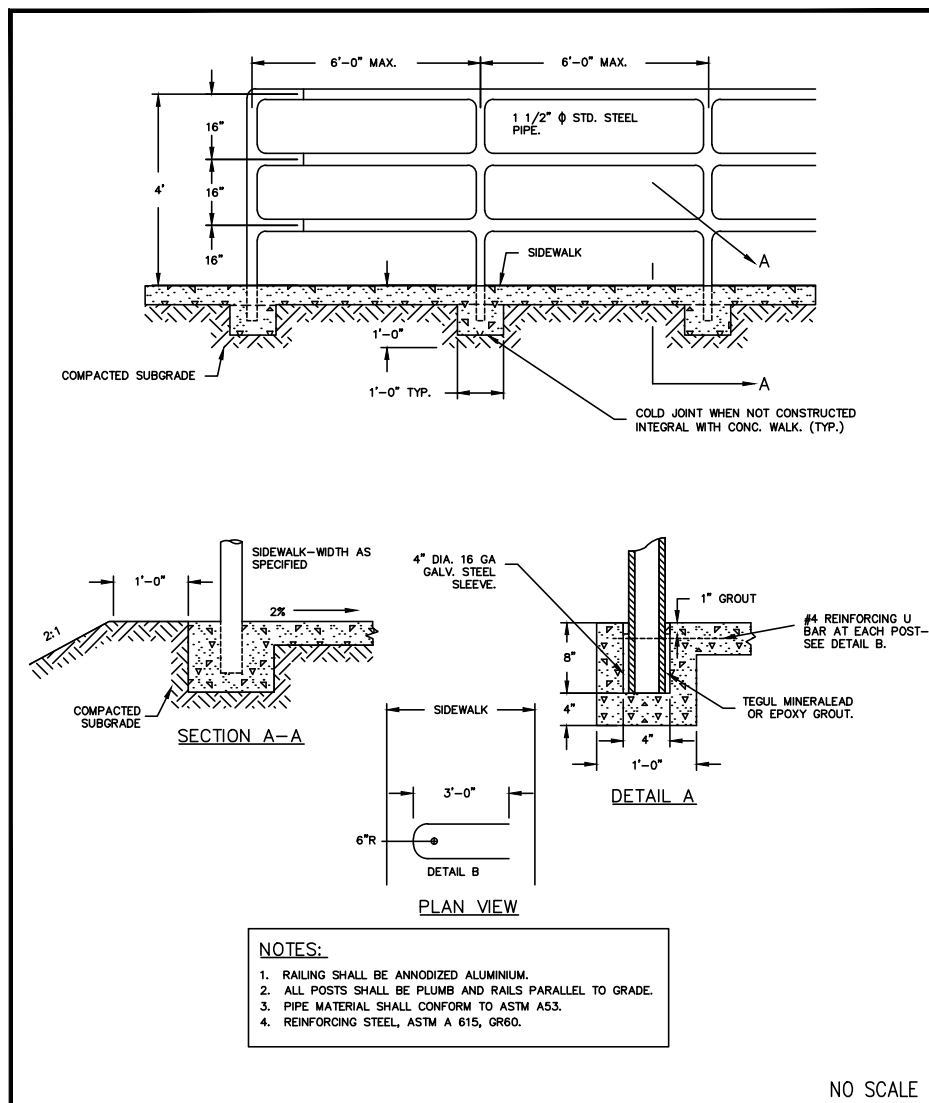
ROADWAY DETAILS

SHEET: **16**

OF: **XX**

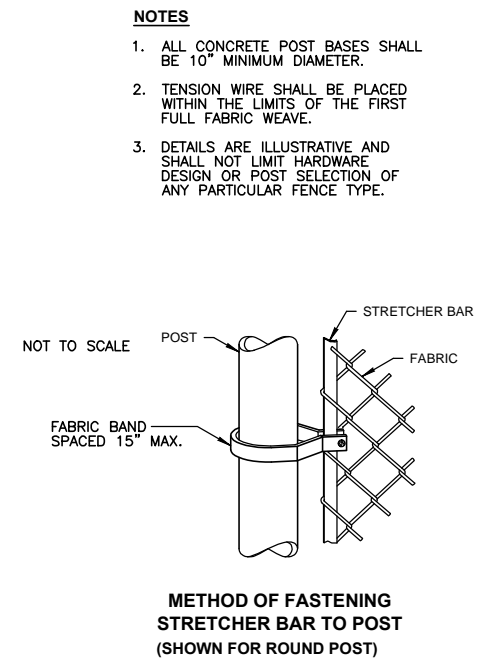
JOB NO.: 13570

DWG: ROAD\_DET2



- NOTES:

1. FENCE FABRIC SHALL BE SECURED TO GATE FRAMES WITH KNUCKLED SELVAGE ALONG TOP EDGE FOR TYPE B CHAIN LINK FENCE INSTALLATIONS.
2. MINIMUM POST LENGTH: 8'-8"
3. CONTRACTOR SHALL FIELD VERIFY LOCATION/DIMENSION OF GATE WITH CONTRACTING AGENCY PRIOR TO WORK.
4. GATES FOR SECURITY FENCE SHALL HAVE BARBED WIRE AND/OR RAZOR WIRE PER CHAIN LINK SECURITY FENCE DETAIL AND FENCE SCHEDULE.

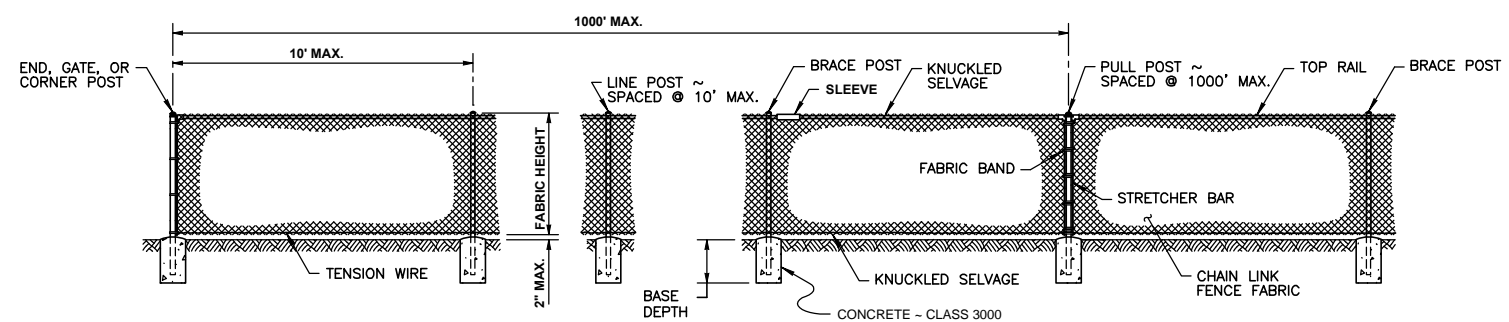


APPROXIMATE LOCATION	ACTION	TYPE	APPROX. LENGTH
STA. 5+75 TO STA. 10+10	N	5' CHAIN LINK FENCE	440' (INCLUDING A 20' WIDE GATE AT APPROX. STA. 7+89)
STA. 123+22 (62ND) TO SAT. 18+60 (ELSP)	N	5' CHAIN LINK FENCE WITH BARBED WIRE	863' (INCLUDING A 20' WIDE GATE AT APPROX. STA. 17+58)
STA. 18+60 TO STA. 20+51	N	5' CHAIN LINK FENCE WITH BARBED WIRE	219' (INCLUDING A 20' WIDE GATE AT APPROX. STA. 19+59)

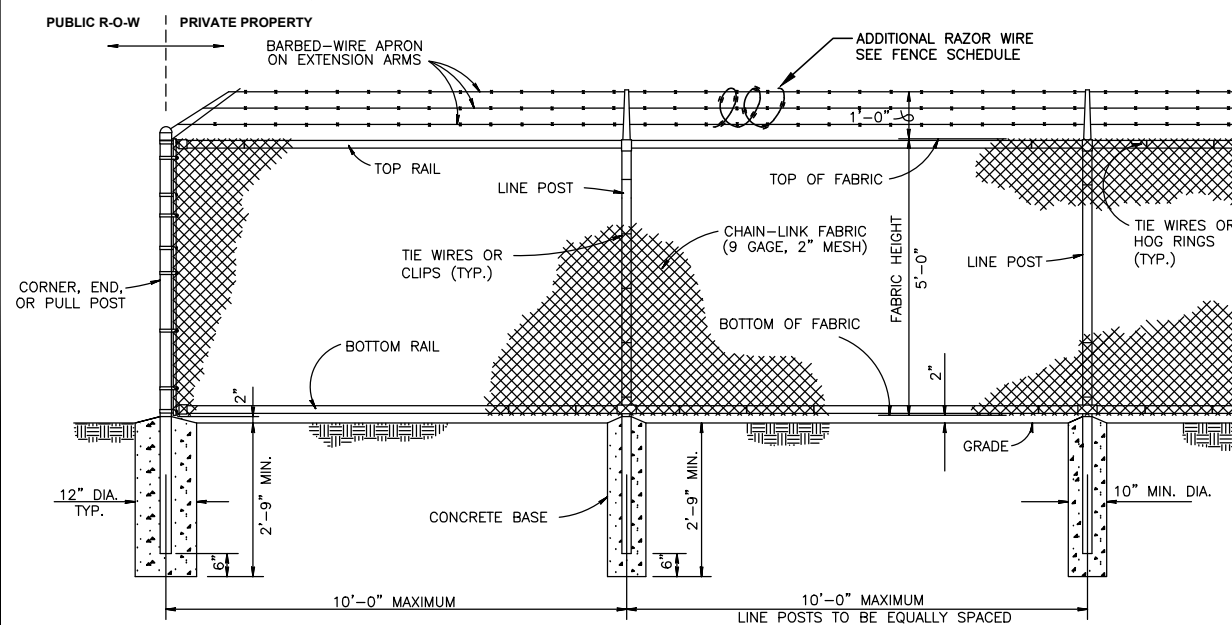
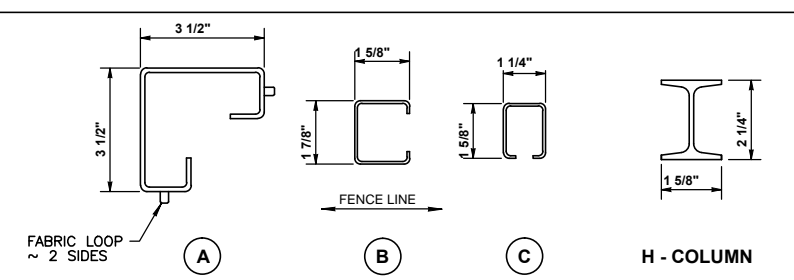
ACTION LEGEND:

N: NEW FENCE. CONTRACTOR SHALL FURNISH ALL  
NECESSARY MATERIAL AND INSTALL NEW FENCE/GATE.

R: RELOCATE OR REINSTALL EXISTING FENCE.

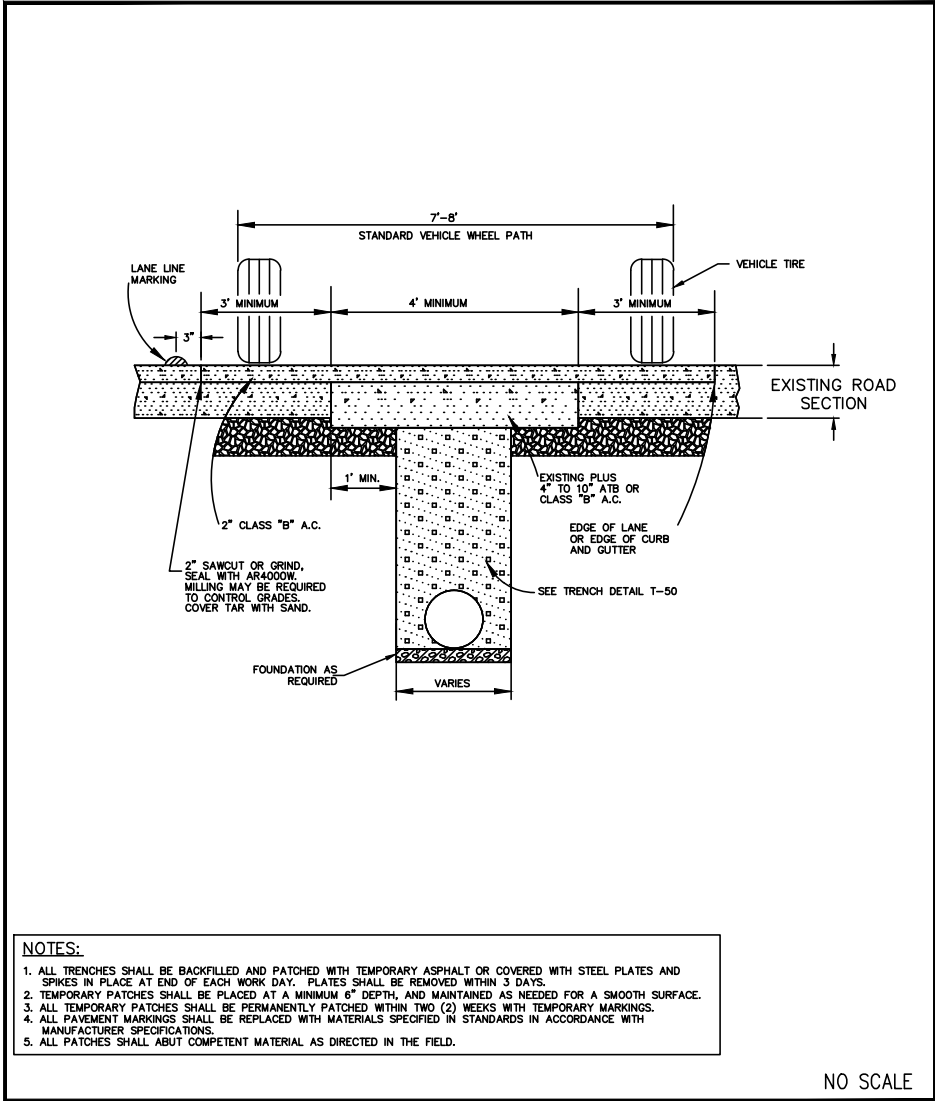


POST AND RAIL SPECIFICATIONS				
MEMBER	PIPE	ROLL FORMED		H - COLUMN
	NOM. SIZE (SCH. 40)	SECTION	WEIGHT (lb/ft)	WEIGHT (lb/ft)
END, CORNER, OR PULL POST	2 1/2" DIAM.	(A)	5.10	
LINE OR BRACE POST	2" DIAM.	(B)	2.40	3.26
BRACE OR TOP RAIL	1 1/4" DIAM.	(C)	1.35	
GATE POST	3 1/2" DIAM.			

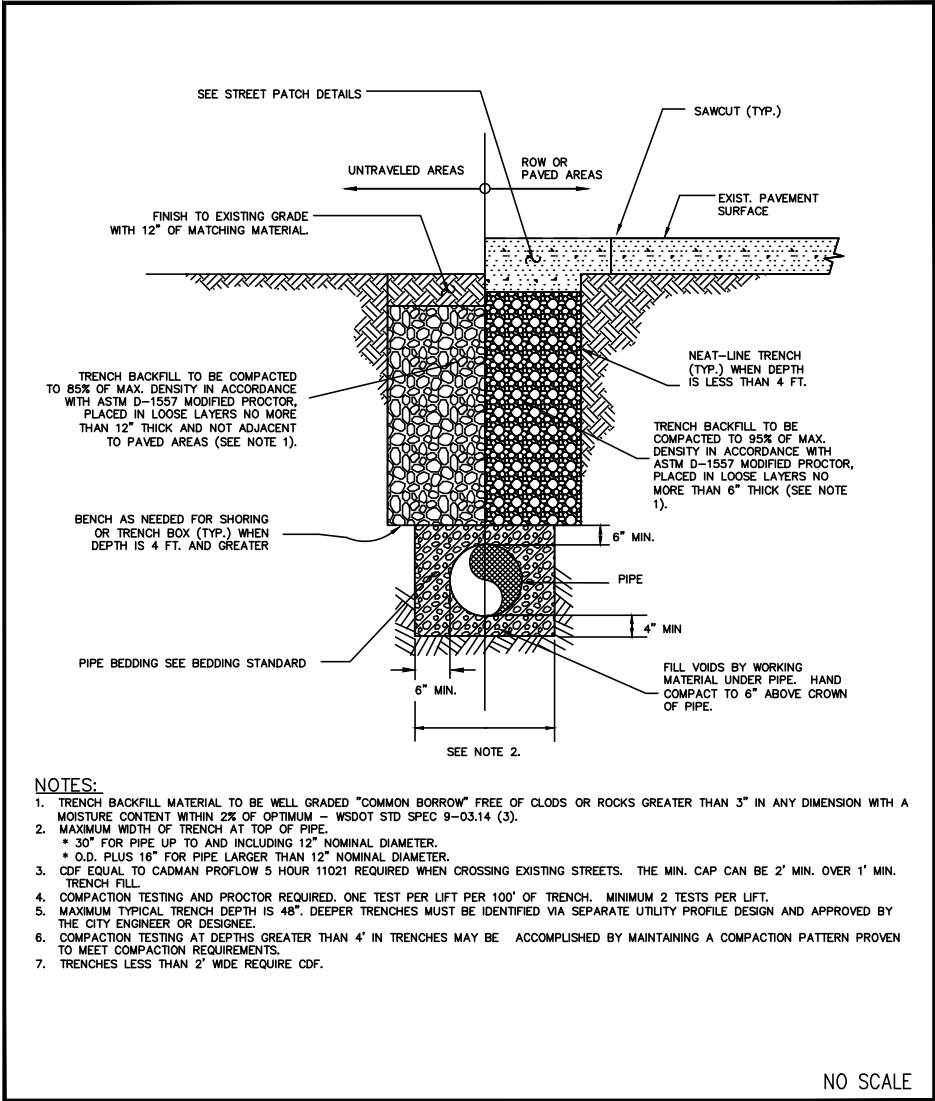


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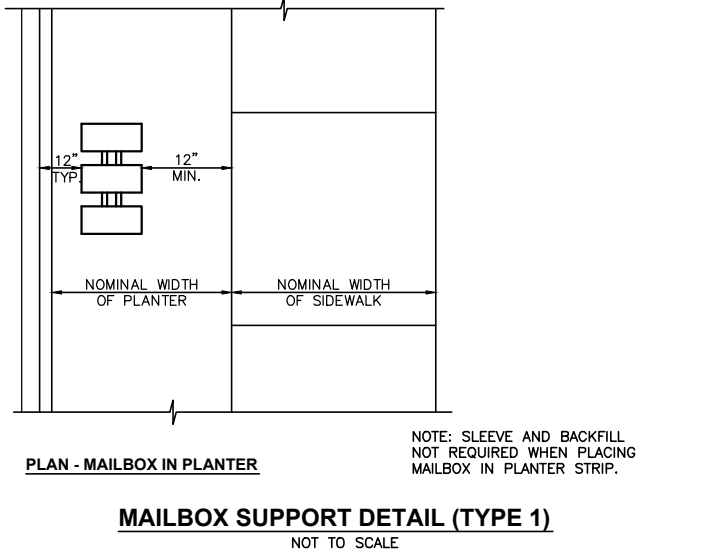
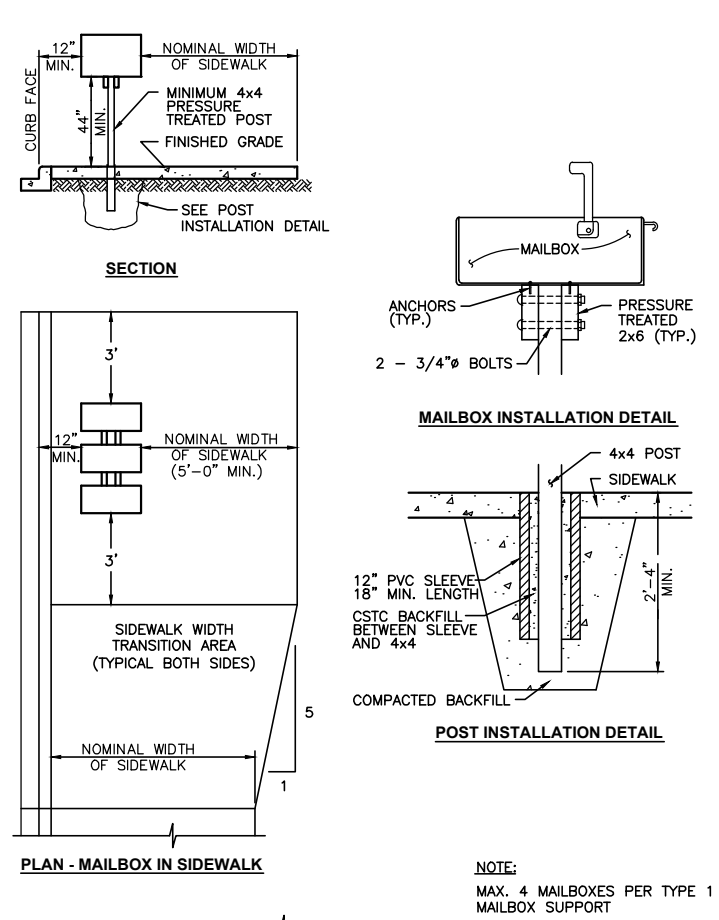
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 AUGUST 2010	 EXPIRES: 12-13-2011	<b>PATCHING FLEXIBLE PAVEMENTS LONGITUDINAL CUTS</b>	<b>STANDARD DETAIL NO. T-49</b> REV:
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 AUGUST 2010	 EXPIRES: 12-13-2011	<b>TRENCH DETAIL</b>	<b>STANDARD DETAIL NO. T-50</b> REV:
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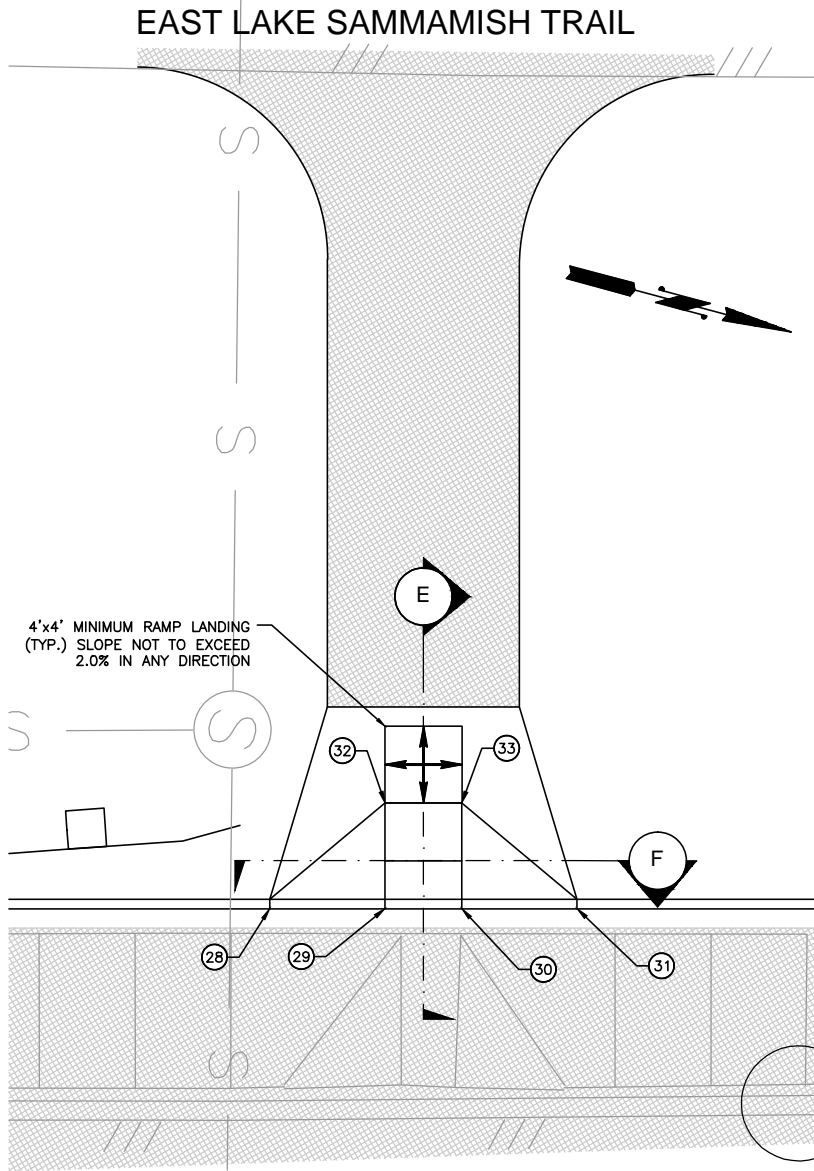


 <b>Gray &amp; Osborne, Inc.</b> CONSULTING ENGINEERS 701 DEWEY AVENUE NORTH, SUITE 200 SEATTLE, WASHINGTON 98109 • (206) 264-0860	DATE: JAN. 2014 SCALE: NOTED DRAWN: A.A.J. CHECKED: C.B.W. APPROVED: B.L.S.
<b>PRELIMINARY NOT FOR CONSTRUCTION</b>	DATE APPD REVISION No.
 <b>BRIAN L. SOUWAINE</b> WASHINGTON 3930 REGISTERED PROFESSIONAL ENGINEER	 <b>CHIT SANG MANG</b> WASHINGTON 3930 REGISTERED PROFESSIONAL ENGINEER
<b>CITY OF ISSAQUAH</b> KING COUNTY EAST LAKE SAMMAMISH PARKWAY SE IMPROVEMENTS ROADWAY DETAILS	
SHEET: <b>18</b> OF: <b>XX</b>	JOB NO.: 13570 DWG: ROAD_DET4

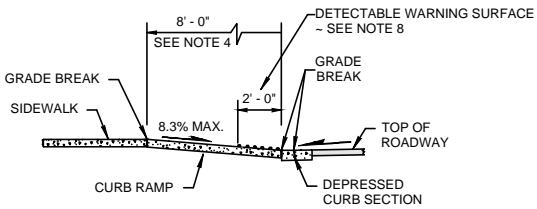




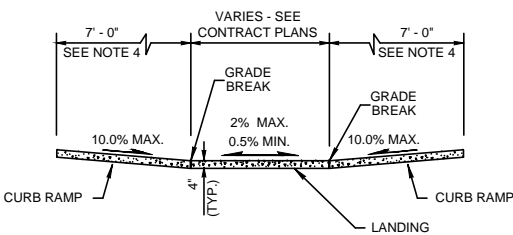
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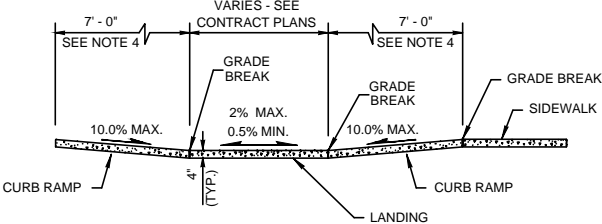
EAST LAKE SAMMAMISH  
PARKWAY SE



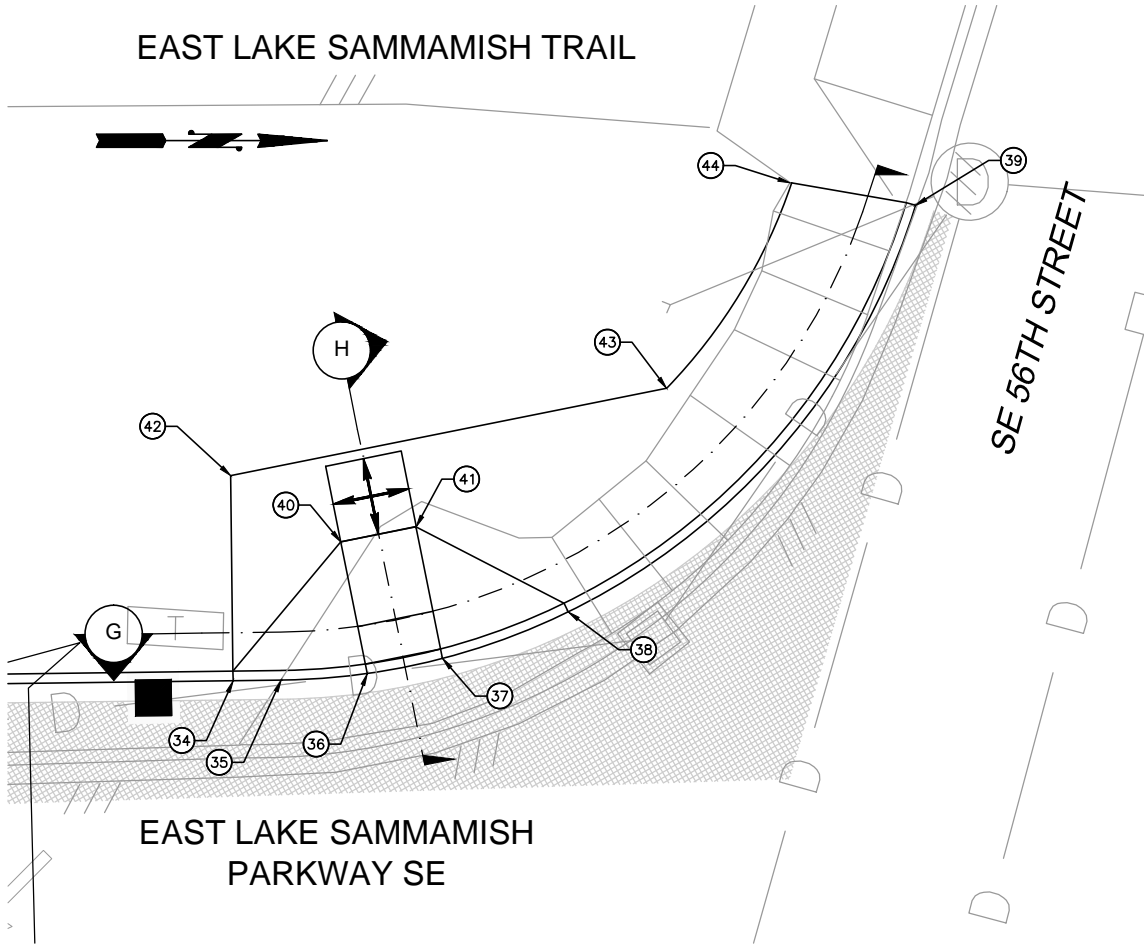
SECTIONS E & H  
NOT TO SCALE



SECTION F  
NOT TO SCALE



SECTION G  
NOT TO SCALE



EAST LAKE SAMMAMISH  
PARKWAY SE

5' 2.5' 0 5' 10'

### CURB RAMP NOTES

1. WHERE "GRADE BREAK" IS CALLED OUT, THE ENTIRE LENGTH OF THE GRADE BREAK BETWEEN THE TWO ADJACENT SURFACE PLANES SHALL BE FLUSH.
2. DO NOT PLACE GRATINGS, JUNCTION BOXES, ACCESS COVERS, OR OTHER APPURTENANCES IN FRONT OF THE CURB RAMP OR ON ANY PART OF THE CURB RAMP OR LANDING.
3. SEE CONTRACT PLANS FOR THE CURB DESIGN SPECIFIED. SEE SHEET XX FOR CURB AND GUTTER AND DEPRESSED CURB DETAILS.
4. RAMP LENGTH FOR REFERENCE ONLY. CONTRACTOR TO FIELD VERIFY AND ADJUST LENGTH TO MEET RAMP SLOPE REQUIREMENTS PER DETAILS. THE CURB RAMP MAXIMUM RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET.
5. CURB RAMPS AND LANDINGS SHALL RECEIVE BROOM FINISH. SEE STANDARD SPECIFICATIONS 8-14.
6. CURB RAMP CROSS SLOPE SHALL NOT EXCEED 2%.
7. LANDING CROSS SLOPE SHALL NOT EXCEED 2%.
8. DETECTABLE WARNING SURFACE. SEE STANDARD PLAN F-45.10.

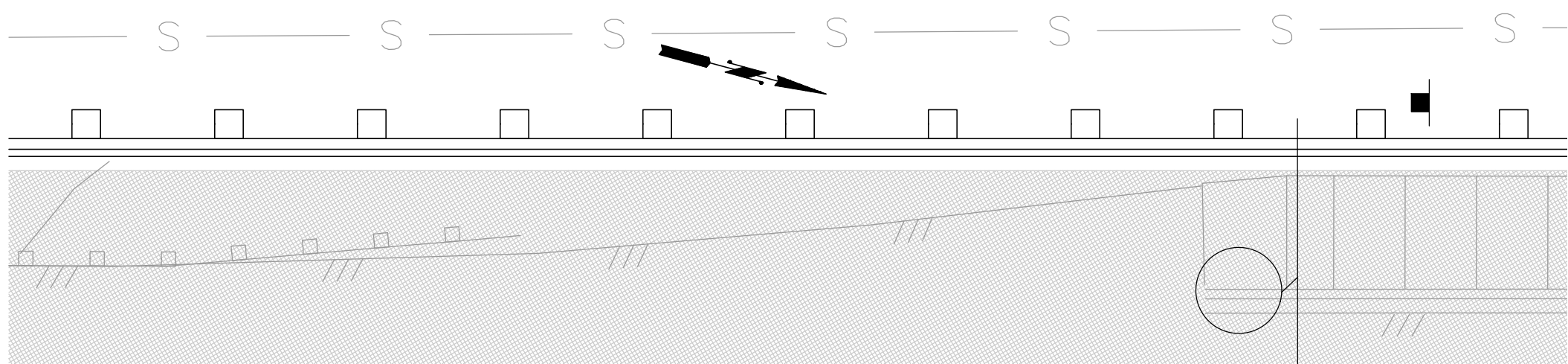
### CURB RETURN TABLE

NUMBER	STATION	OFFSET	ELEV.	DESCRIPTION	CURVE DATA	CURVE CENTER POINT
28	24+77.43	26.00' LT	--	FL CURB AT RAMP TOP		
29	24+83.43	26.00' LT	--	FL CURB AT RAMP TOE		
30	24+87.43	26.00' LT	--	FL CURB AT RAMP TOE		
31	24+93.43	26.00' LT	--	FL CURB AT RAMP TOP		
32	24+83.43	31.50' LT	--	FG AT RAMP TOP		
33	24+87.43	31.50' LT	--	FG AT RAMP TOP	R=35.00' L=44.12' Δ072°13'28"	32+19.39 79.45' LT
34	32+17.32	44.42' LT	--	FL CURB AT RAMP TOP		
35	32+19.82	44.45' LT	--	FL CURB AT PC		
36	32+24.30	44.80' LT	--	FL CURB AT RAMP TOE		
37	32+28.22	45.58' LT	--	FL CURB AT RAMP TOE	R=28.50' L=12.61' Δ025°21'36"	32+19.39 79.45' LT
38	32+34.77	48.01' LT	--	FL CURB AT RAMP TOP		
39	32+52.84	69.18' LT	--	FL CURB AT PT/TIE IN *		
40	32+22.92	51.66' LT	--	FG AT RAMP TOP		
41	32+26.85	52.45' LT	--	FG AT RAMP TOP		
42	32+17.19	55.10' LT	--	FG AT BACK OF WALK		
43	32+39.89	70.35' LT	--	FG AT BACK OF WALK/PC		
44	32+46.39	70.35' LT	--	FG AT BACK OF WALK/PT *		

NOTES:  
\* MATCH EXISTING ELEVATION AT CONNECTION POINT  
PC = POINT OF CURVATURE  
PT = POINT OF TANGENCY  
PRC = POINT OF REVERSE CURVATURE  
PCC = POINT OF COMPOUND CURVATURE  
FL = FLOW LINE

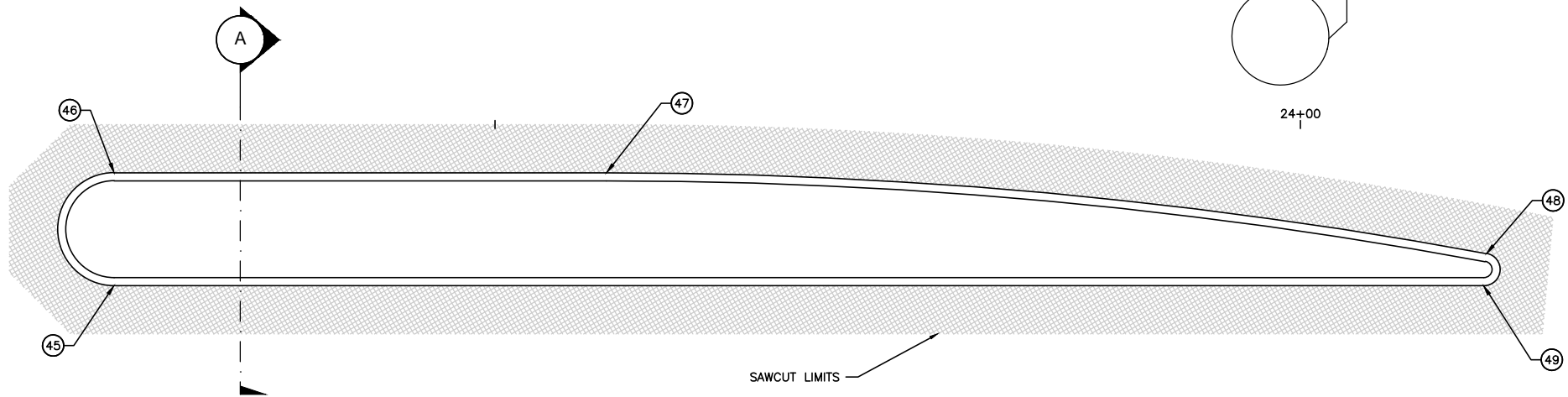
0 1" 2"  
TWO INCHES AT FULL SCALE.  
IF NOT, SCALE ACCORDINGLY

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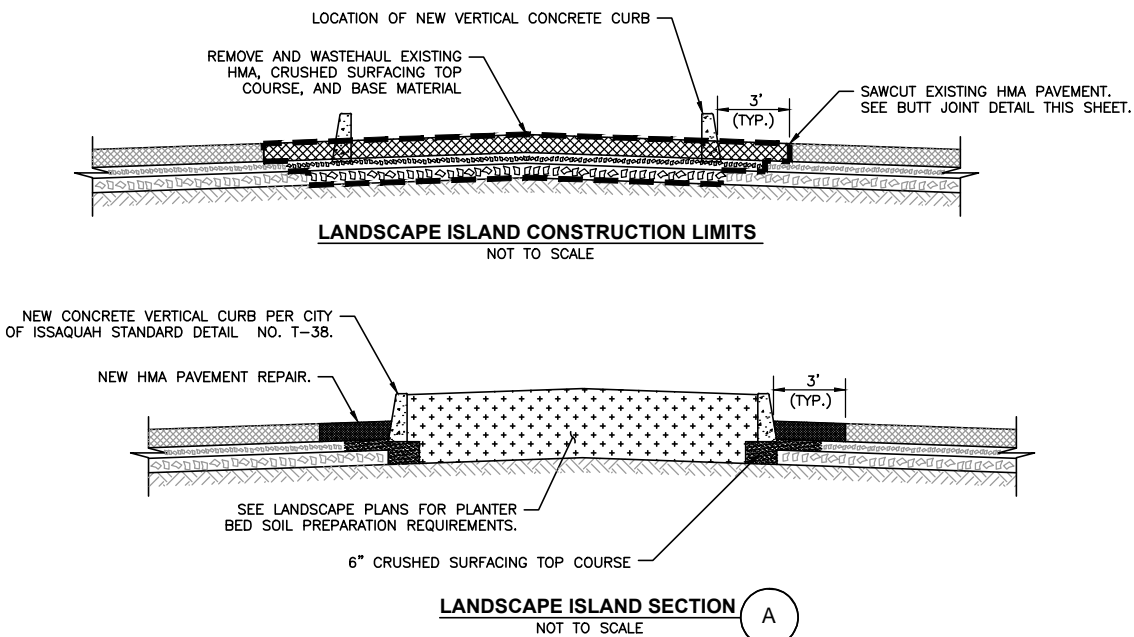
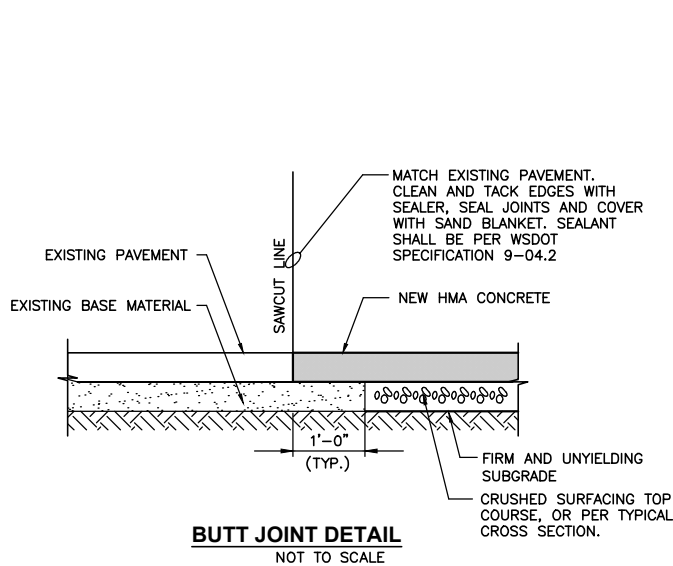


**NOTES:**

1. SEE CHANNELIZATION PLANS FOR PAVEMENT MARKINGS.
2. SAWCUT EXISTING PAVEMENT FULL DEPTH.  
SEE PLAN AND PROFILE SHEET FOR SAWCUT LINE LOCATION
3. SEE LANDSCAPING PLANS FOR TOPSOIL AND PLANTING DETAILS.  
SEE ILLUMINATION PLANS FOR LIGHT POLE PLACEMENT DETAILS.
4. SEE TYPICAL PAVEMENT SECTIONS.



**EAST LAKE SAMMAMISH PARKWAY SE**



**CURB RETURN TABLE**

NUMBER	STATION	OFFSET	ELEV.	DESCRIPTION	CURVE DATA	CURVE CENTER POINT	
45	23+26.35	10.00' RT	---	FG AT PC	R=3.50' L=11.00' Δ180°00'00"	23+26.35	6.50' RT
46	23+26.35	3.00' RT	---	FL CURB AT PT			
47	23+56.92	3.00' RT	---	FL CURB AT PC	R=300.00' L=54.94' Δ010°29'34"	23+56.92	303.00' RT
48	24+11.55	8.01' RT	---	FL CURB AT PCC			
49	24+11.37	10.00' RT	---	FL CURB AT PT	R=1.00' L=2.96' Δ169°30'22"	24+11.37	9.00' RT

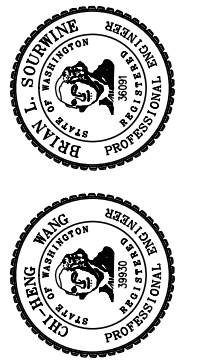
**NOTES:**

- \* MATCH EXISTING ELEVATION AT CONNECTION POINT
- PC = POINT OF CURVATURE
- PT = POINT OF TANGENCY
- PRC = POINT OF REVERSE CURVATURE
- PCC = POINT OF COMPOUND CURVATURE
- FL = FLOW LINE

0 1" 2"  
TWO INCHES AT FULL SCALE.  
IF NOT, SCALE ACCORDINGLY

DATE: JAN. 2014  
SCALE: H: 1"=5'  
DRAWN: B.J.B.  
CHECKED: C.B.W.  
APPROVED: B.L.S.

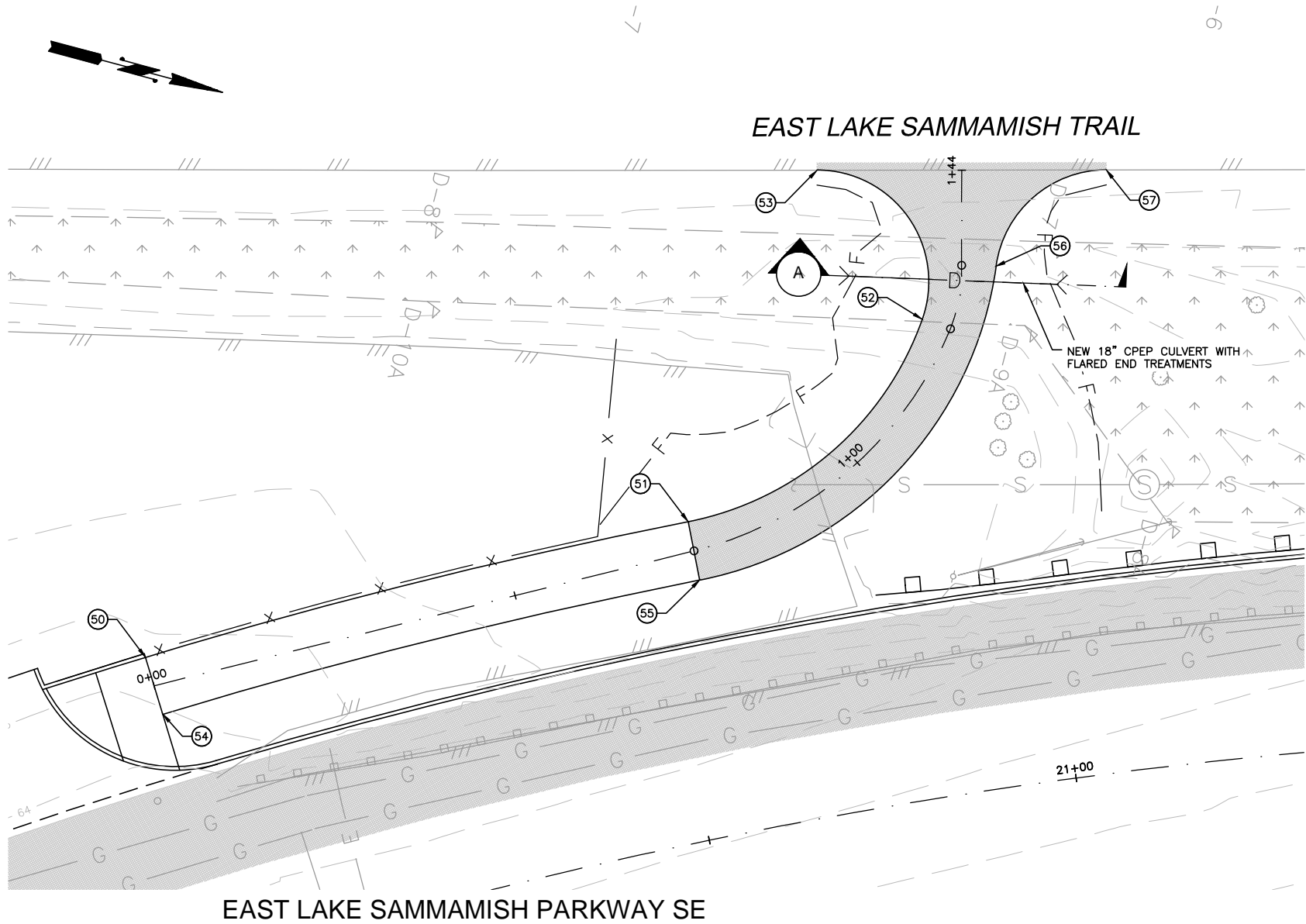
No.	REVISION	DATE	APPD
PRELIMINARY NOT FOR CONSTRUCTION			



**CITY OF ISSAQUAH**  
KING COUNTY WASHINGTON  
**EAST LAKE SAMMAMISH PARKWAY SE  
IMPROVEMENTS**  
LANDSCAPE ISLAND PLAN  
AND DETAILS

SHEET: **21**  
OF: **XX**  
JOB NO.: 13570  
DWG: INTERSECTION

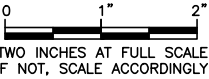
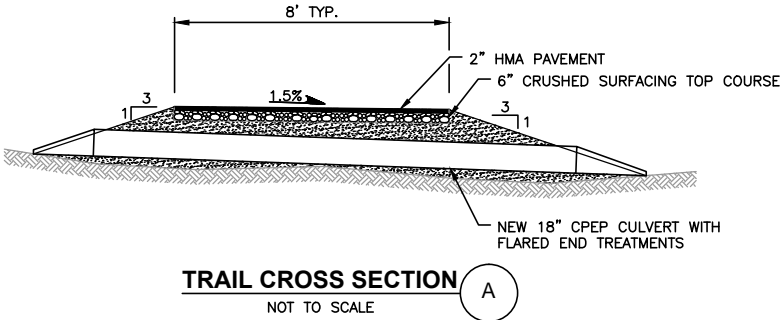
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TRAIL CONTROL

NUMBER	STATION	OFFSET	ELEV.	DESCRIPTION	CURVE DATA	CURVE CENTER POINT	
50	19+84.53	42.51' LT	--	FG AT BACK OF WALK	R=42.00' L=43.51' Δ059°21'16"	20+55.51	84.51' LT
51	20+55.51	42.51' LT	--	FG AT BACK OF WALK/PC			
52	20+88.70	63.94' LT	--	FG AT BACK OF WALK/PCC			
53	20+78.85	85.89' LT	--	FG AT TIE IN POINT *	R=15.00' L=28.66' Δ109°29'27"	20+76.65	71.09' LT
54	19+84.53	34.51' LT	--	FG AT FRONT OF WALK	R=50.00' L=61.87' Δ070°53'40"	20+55.51	84.51' LT
55	20+55.51	34.51' LT	--	FG AT FRONT OF WALK/PC			
56	20+98.60	69.56' LT	--	FG AT FRONT OF WALK/PRC			
57	21+13.39	80.55' LT	--	FG AT TIE IN POINT *	R=15.00' L=21.47' Δ082°01'10"	21+11.84	65.65' LT

NOTES:  
\* MATCH EXISTING ELEVATION AT CONNECTION POINT  
PC = POINT OF CURVATURE  
PT = POINT OF TANGENCY  
PRC = POINT OF REVERSE CURVATURE  
PCC = POINT OF COMPOUND CURVATURE  
FL = FLOW LINE





**Gray & Osborne, Inc.**  
CONSULTING ENGINEERS  
701 DEWEY AVENUE NORTH, SUITE 200  
SEATTLE, WASHINGTON 98109 • (206) 264-0860

DATE: JAN. 2014	SCALE: H. 1"=10'	DRAWN: B.J.B.	CHECKED: C.B.W.	APPROVED: B.L.S.
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	DATE	APPD
PRELIMINARY NOT FOR CONSTRUCTION	REVISION	
	No.	

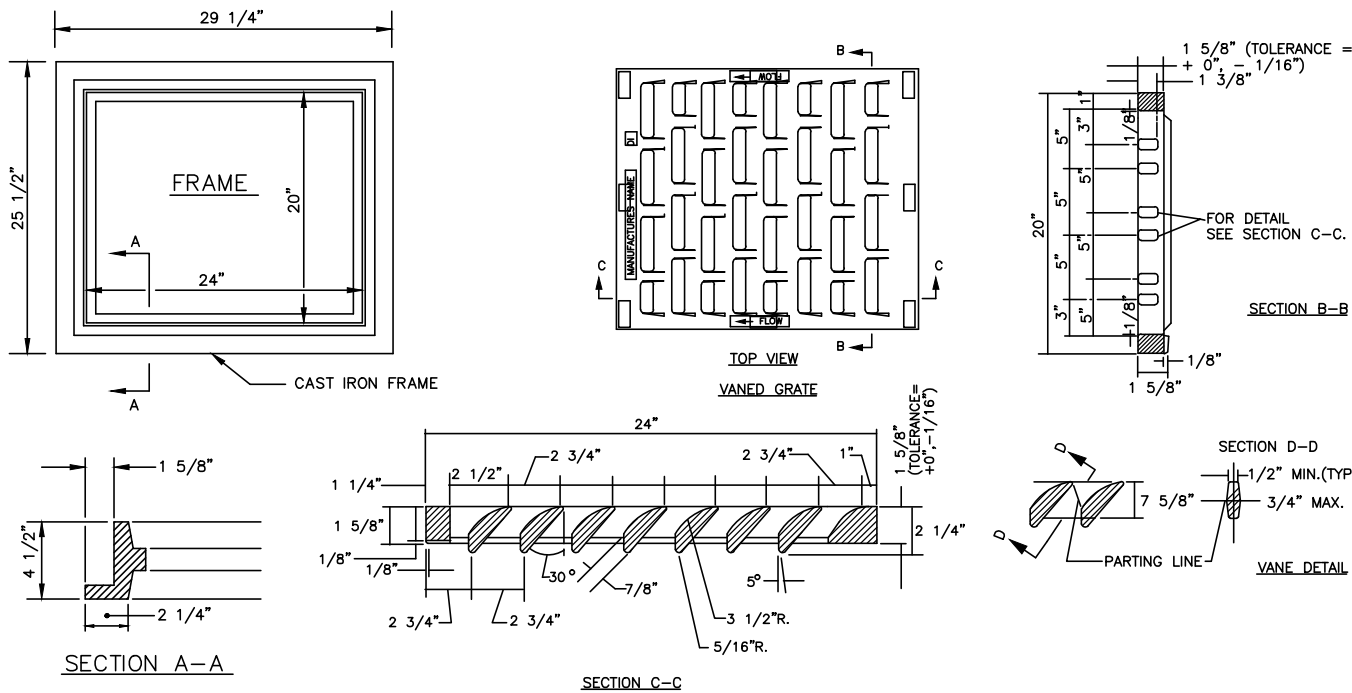


CITY OF ISSAQUAH  
KING COUNTY  
WASHINGTON  
EAST LAKE SAMMAMISH PARKWAY SE  
IMPROVEMENTS  
SIDEWALK AND TRAIL  
CONNECTION DETAILS

SHEET: 22  
OF: XX

JOB NO.: 13570  
DWG: TRAIL

L:\ISSAQUAH\13570 E. Lake Sammamish Pkwy\01 Design\Plan\set\RAINAGE\_DET1.dwg, 1/22/2014 4:32:29 PM, bboilen

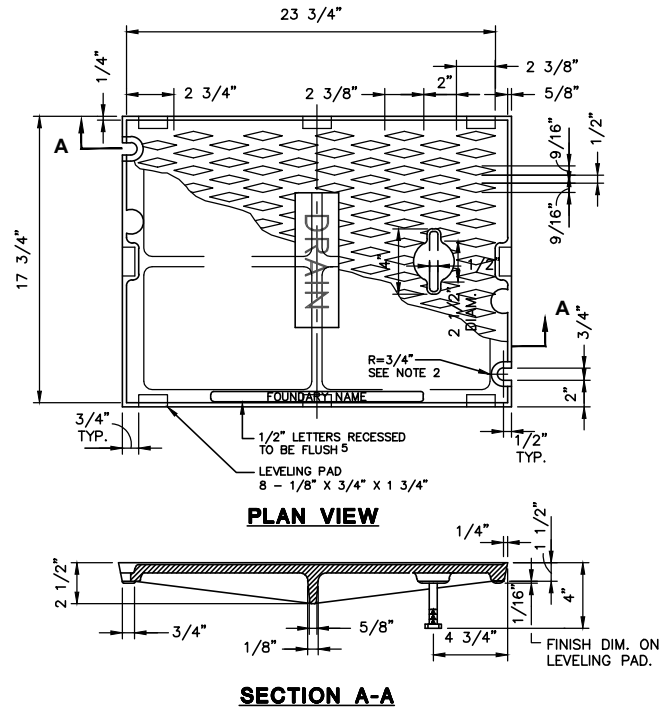


### CATCH BASIN FRAME AND GRATE

NOT TO SCALE

#### NOTES:

1. MATERIAL SHALL CONFORM TO SECTION 9-05.15 "METAL CASTINGS" OF THE "STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION" PUBLISHED BY THE STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON STATE CHAPTER.
2. THE NAME OF THE MANUFACTURER AND DIRECTION OF FLOW SHALL BE EMBOSSED ON THE TOP SURFACE OF EACH GRATE. LETTERING TO BE RECESSED 1/16".
3. THE MATERIAL USED FOR THE GRATE SHALL BE DESIGNATED BY EMBASSING CS (FOR CAST STEEL) NEAR THE NAME OF THE MANUFACTURER.
4. DIMENSIONS SHALL HAVE A  $\pm 1/16$ " TOLERANCE, EXCEPT AS NOTED.
5. EDGES SHALL HAVE 1/8" RADIUS.
6. WELDING IS NOT PERMITTED.
7. AS AN ALTERNATE, 8 PADS 1 1/2" X 3/4" X 1/8", INTEGRALLY CAST WITH THE GRATE, MAY BE USED.

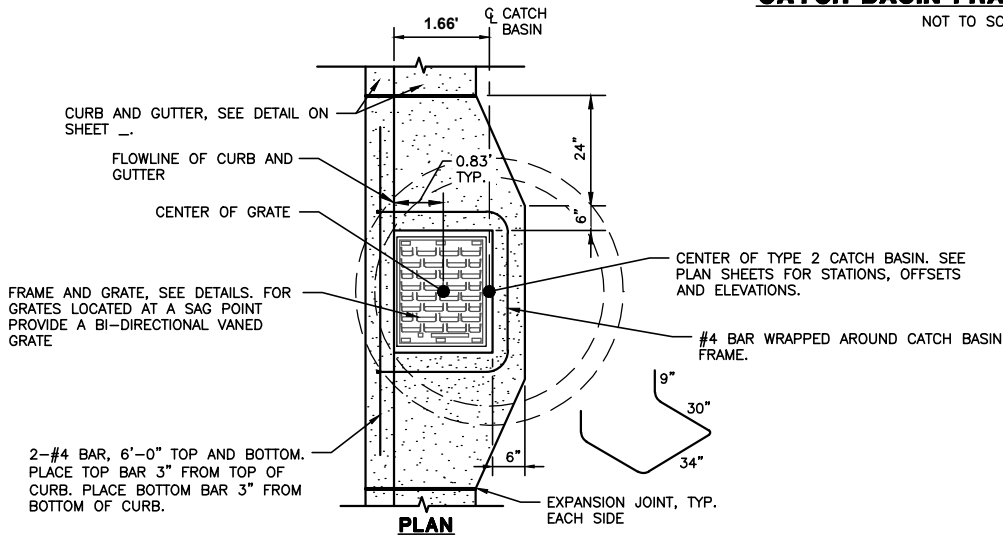


#### NOTES:

1. USE WITH FRAME DRILLED AND TAPPED FOR LOCKING BOLTS.
2. USE WITH TWO LOCKING BOLTS 5/8"-11 NC STAINLESS STEEL TYPE 304 STEEL SOCKET HEAD (ALLEN HEAD) BOLTS, 2" LONG.
3. COVER MATERIAL IS CAST IRON PER ASTM A48 CLASS 30.
4. SHALL CONFORM TO SEC. 7.05 OF THE STANDARD SPECIFICATIONS
5. COVER SHALL HAVE THE WORD "DRAIN" IN 2-INCH RAISED LETTERS.

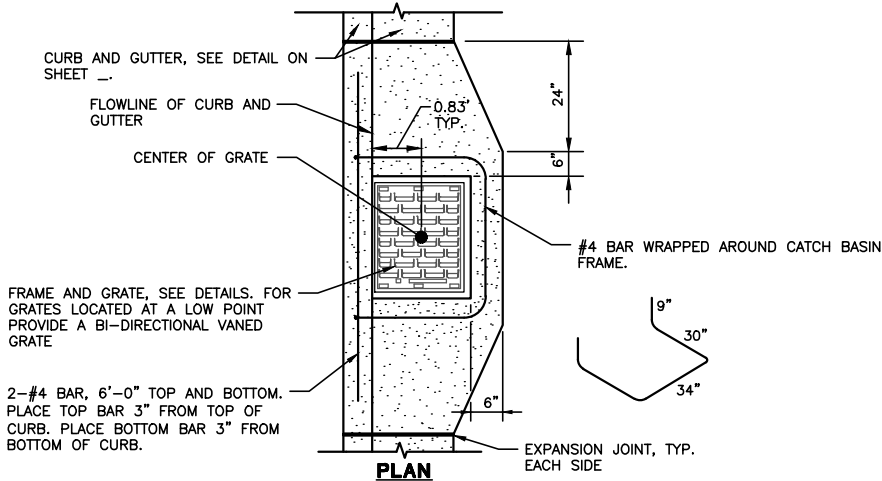
### SOLID LOCKING LID (TYPE 1 CATCH BASIN)

NOT TO SCALE



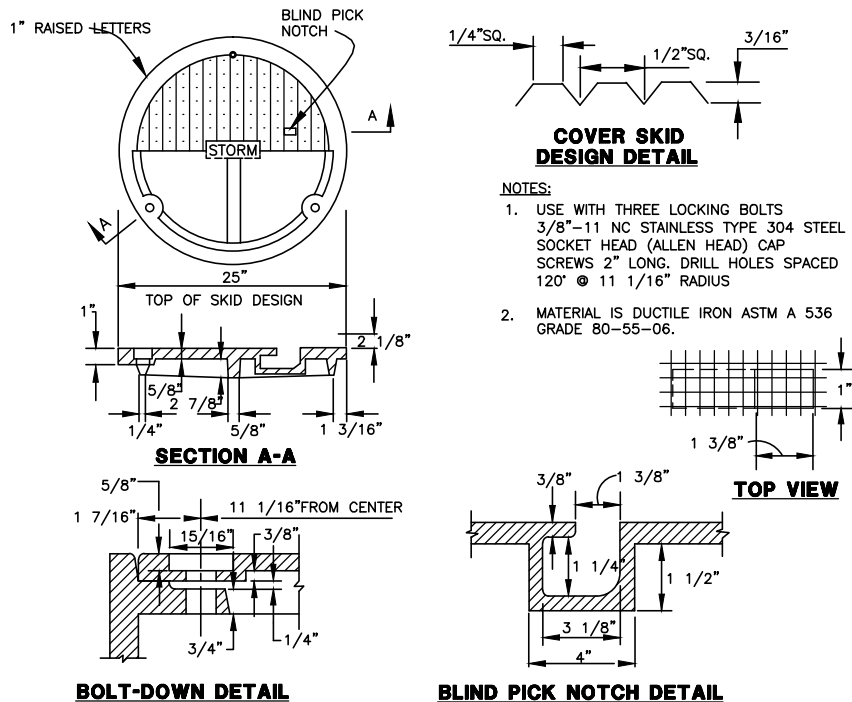
### TYPICAL TYPE 2 CATCH BASIN INSTALLATION DETAIL W/ CURB AND GUTTER

NOT TO SCALE



### TYPICAL TYPE 1 CATCH BASIN INSTALLATION DETAIL W/ CURB AND GUTTER

NOT TO SCALE

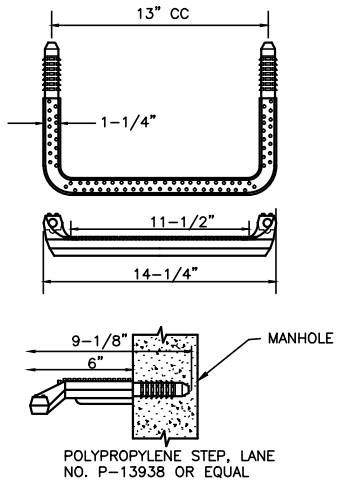


### SOLID LOCKING LID (MANHOLE)

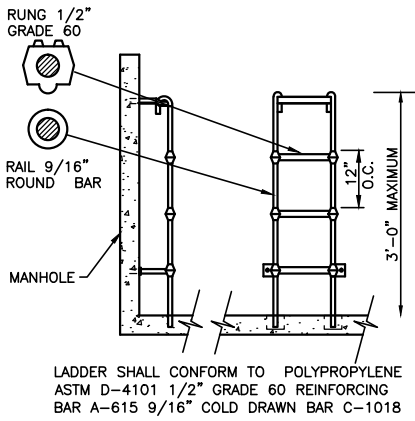
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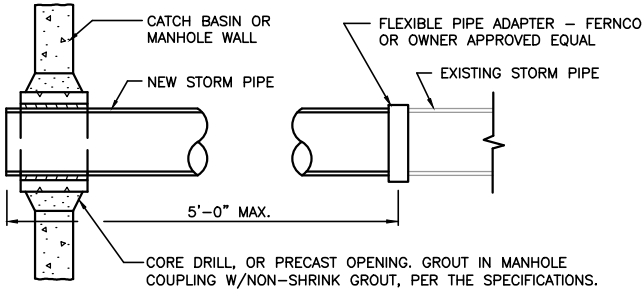


POLYPROPYLENE MANHOLE STEPS

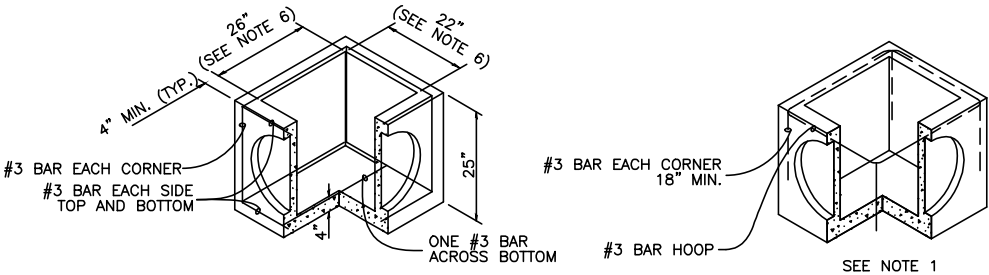
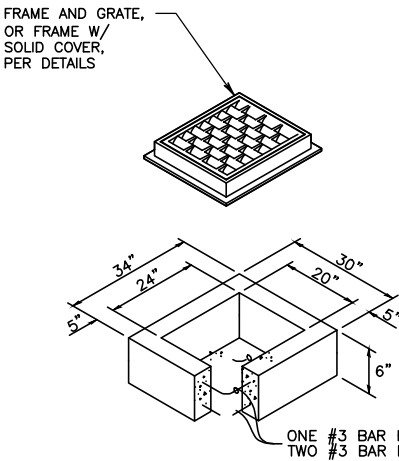


POLYPROPYLENE LADDER

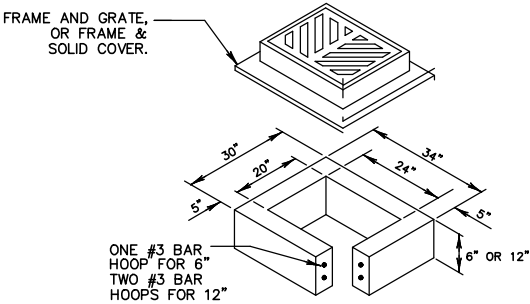
POLYPROPYLENE LADDER AND MANHOLE STEPS  
NOT TO SCALE



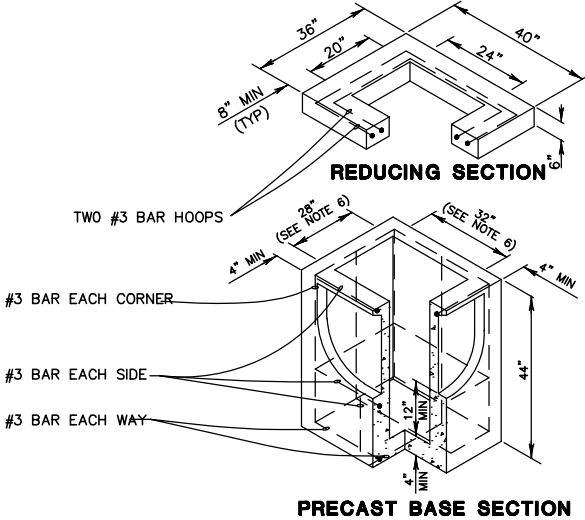
CONNECTION OF EXISTING STORM DRAIN  
USING FLEXIBLE PIPE ADAPTER  
NOT TO SCALE



CONCRETE INLET DETAIL  
NOT TO SCALE



RECTANGULAR ADJUSTMENT SECTION



PRECAST BASE SECTION

CATCH BASIN TYPE 1L  
NOT TO SCALE

NOTES

- 1 AS AN ACCEPTABLE ALTERNATE TO REBAR, WIRE MESH HAVING A MINIMUM AREA OF 0.12 SQUARE INCHES PER FOOT MAY BE USED. WIRE MESH SHALL NOT BE PLACED IN KNOCKOUTS.
- 2 THE KNOCKOUT DIAMETER SHALL NOT BE GREATER THAN 20". KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MINIMUM TO 2 1/2" MAXIMUM.
- 3 THE MAXIMUM DEPTH FROM THE FINISHED GRADE TO THE PIPE INVERT SHALL BE 5'.
- 4 FRAME AND GRATE MAY BE INSTALLED WITH FLANGE DOWN OR CAST INTO ADJUSTMENT SECTION.
- 5 THE PRECAST BASE SECTION MAY HAVE A ROUNDED FLOOR AND THE WALLS MAY BE SLOPED AT A RATE OF 1:24 OR STEEPER.
- 6 OPENING SHALL BE MEASURED AT THE TOP OF THE PRECAST BASE UNIT.
- 7 GROUT ALL JOINTS INSIDE AND OUTSIDE.

NOTES

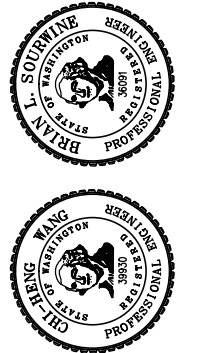
- 1 AS AN ACCEPTABLE ALTERNATE TO REBAR, WIRE MESH HAVING A MINIMUM AREA OF 0.12 SQUARE INCHES PER FOOT MAY BE USED. WIRE MESH SHALL NOT BE PLACED IN KNOCKOUTS.
- 2 THE KNOCKOUT DIAMETER SHALL NOT BE GREATER THAN 20". KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MINIMUM TO 2 1/2" MAXIMUM.
- 3 THE MAXIMUM DEPTH FROM THE FINISHED GRADE TO THE PIPE INVERT SHALL BE 5'.
- 4 FRAME AND GRATE MAY BE INSTALLED WITH FLANGE DOWN OR CAST INTO ADJUSTMENT SECTION.
- 5 THE PRECAST BASE SECTION MAY HAVE A ROUNDED FLOOR AND THE WALLS MAY BE SLOPED AT A RATE OF 1:24 OR STEEPER.
- 6 OPENING SHALL BE MEASURED AT THE TOP OF THE PRECAST BASE UNIT.
- 7 THE 6" ADJUSTMENT SECTION SHALL HAVE ONE #3 BAR CENTERED. THE 12" ADJUSTMENT SECTION SHALL HAVE TWO #3 BAR EQUALLY SPACED.
- 8 GROUT ALL JOINTS INSIDE AND OUTSIDE.

- \* CATCH BASIN AND ALL REINFORCING STEEL TO CONFORM TO WSDOT STANDARD PLAN B-5.46-01
- \* SEE ALSO TYPICAL CATCH BASIN TYPE 1 INSTALLATION DETAIL W/ CURB AND GUTTER, SHEET 23.

0 1" 2"  
TWO INCHES AT FULL SCALE.  
IF NOT, SCALE ACCORDINGLY

DATE: JAN. 2014	SCALE:	DRAWN:	CHECKED: C.B.W.	APPROVED: B.L.S.
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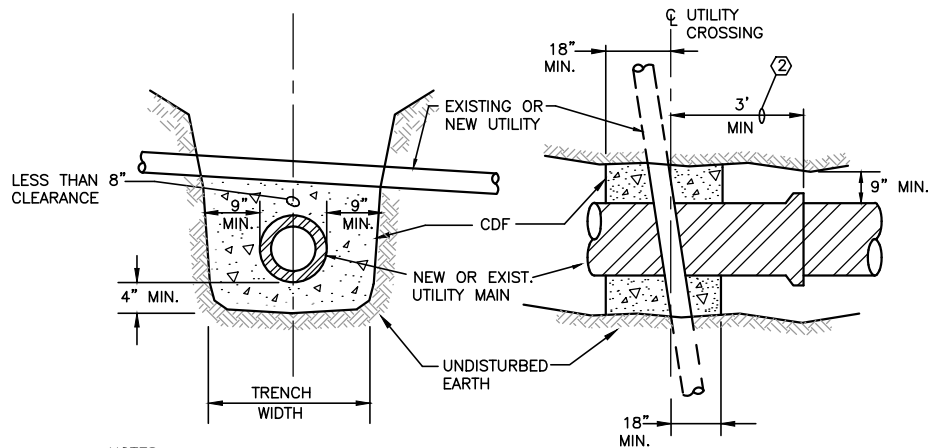
REVISION	DATE	APPD
PRELIMINARY NOT FOR CONSTRUCTION		



CITY OF ISSAQUAH  
KING COUNTY  
WASHINGTON  
EAST LAKE SAMMAMISH PARKWAY SE  
IMPROVEMENTS  
STORM DRAINAGE DETAILS

SHEET: 24
OF: XX
JOB NO.: 13570
DWG: DRAINAGE_DET2

L:\ISSAQUAH\13570 E. Lake Sammamish Pkwy\01 Design\Planset\DRainage\_DET3.dwg, 1/22/2014 4:34:01 PM, bboilen

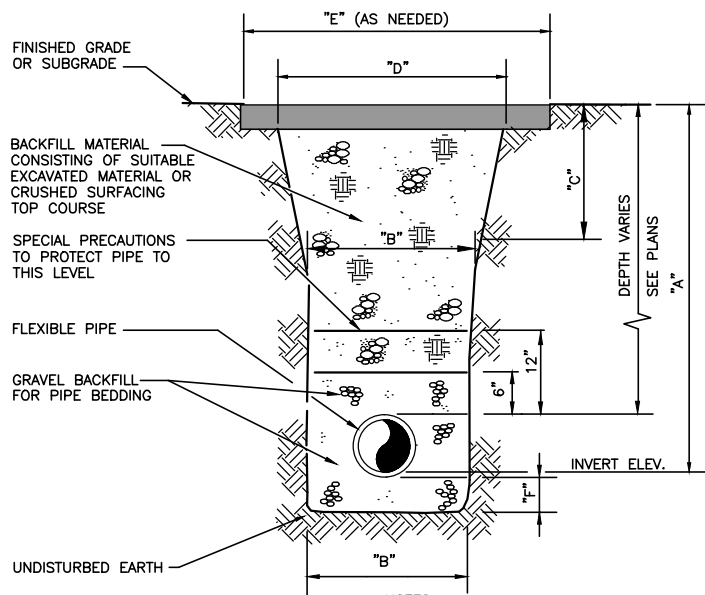


NOTES:

- ① CONTRACTOR SHALL PROVIDE CDF PIPE ENCASEMENT AT ALL EXISTING UTILITY CROSSINGS IN THE EVENT THAT AN 8" SEPARATION CANNOT BE PROVIDED. THE CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE SITE UTILITIES TO ANTICIPATE PROVIDING AND INSTALLING CDF ENCASEMENTS WHERE NECESSARY.
- ② CONTRACTOR SHALL NOT CONSTRUCT ANY NEW PIPE JOINT WITHIN 6 FEET OF THE EXISTING CENTERLINE OF THE UTILITY CROSSING.

CDF PIPE ENCASEMENT DETAIL

NOT TO SCALE

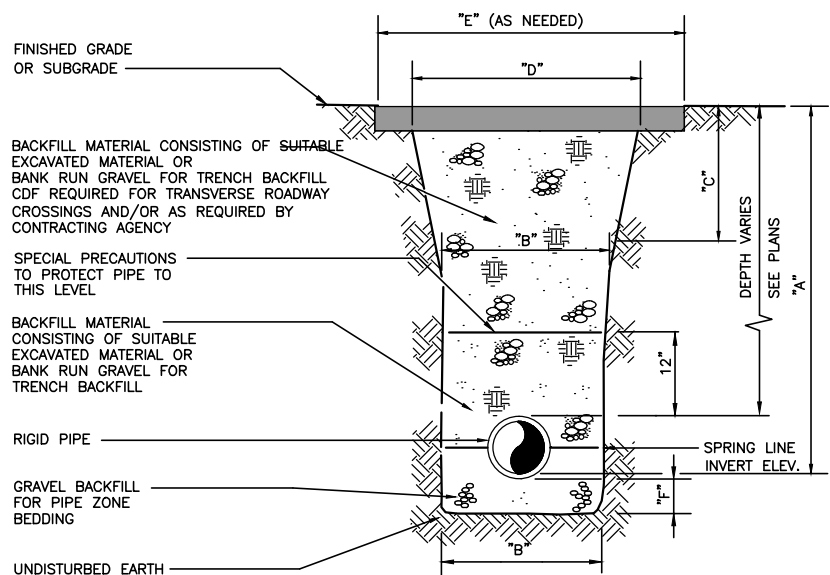


NOTES:

1. THE TRENCH SECTIONS SHOWN ON THE PLANS ARE FOR THE PAYMENT LIMITS FOR BANK RUN GRAVEL FOR TRENCH BACKFILL. PAYMENT FOR ALL BANK RUN GRAVEL FOR TRENCH BACKFILL SHALL BE COMPUTED FROM THE MEASUREMENT OF THE CONSTRUCTED TRENCH SECTION, TO THE MAXIMUM LIMITS AS INDICATED IN THE TABLES.
2. WHERE A "NEW ROADWAY SECTION" OR PAVEMENT REPAIR IS PROPOSED, THE TRENCH SECTION PAYMENT LIMIT LINE WILL BE BOUNDED AT THE TOP BY PAVEMENT SUBGRADE, PER TYPICAL ROADWAY SECTION DETAILS.

TRENCH SECTION - FLEXIBLE STORM PIPE

NOT TO SCALE



TRENCH SECTION - RIGID STORM PIPE

NOT TO SCALE

8" & 12" DIAMETER PIPE

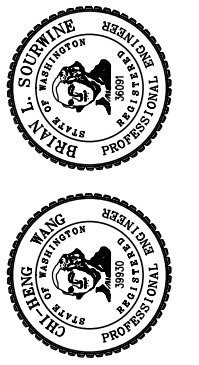
A	6" OR LESS	8'	10'	12'	14'	16'	18'	20'	22'	24'	26'	28'
B												
C	1.50'	1.50'	1.75'	2.25'	2.75'	3.25'	3.75'	4.25'	4.75'	5.25'	5.75'	6.25'
D	6.00'	6.00'	6.50'	7.50'	8.50'	9.50'	10.50'	11.50'	12.50'	13.50'	14.50'	15.50'
E	7.00'	7.00'	7.50'	8.50'	9.50'	10.50'	11.50'	12.50'	13.50'	14.50'	15.50'	16.50'
F												

TYPICAL TRENCH EXCAVATION LIMITS  
STORM SEWER PIPE

0 1" 2"  
TWO INCHES AT FULL SCALE.  
IF NOT, SCALE ACCORDINGLY

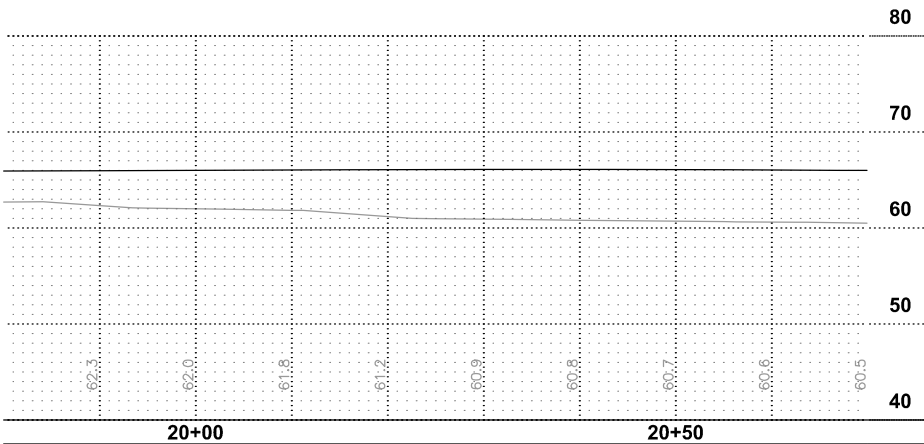
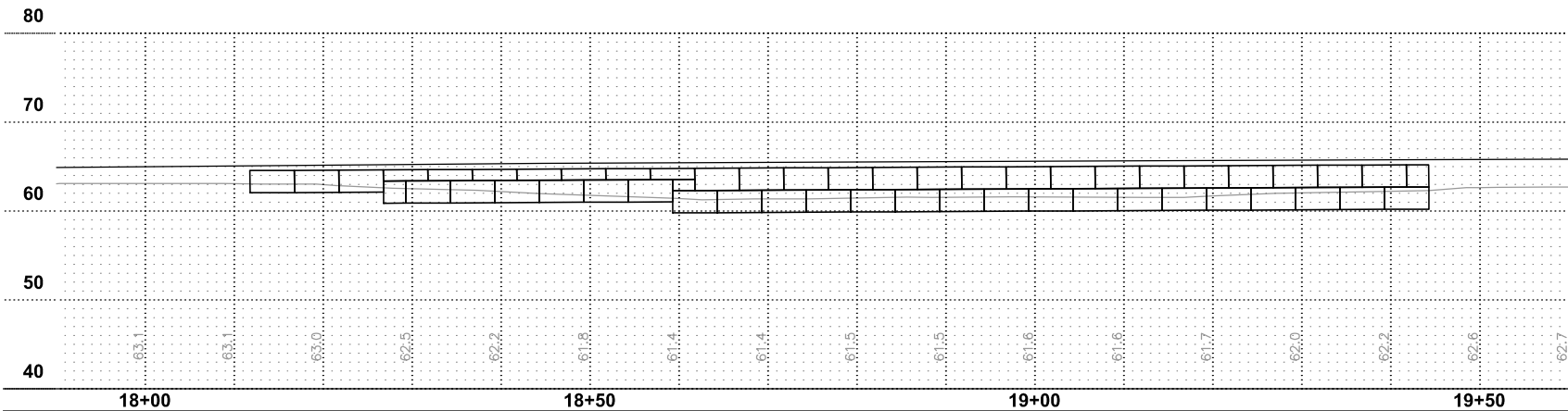
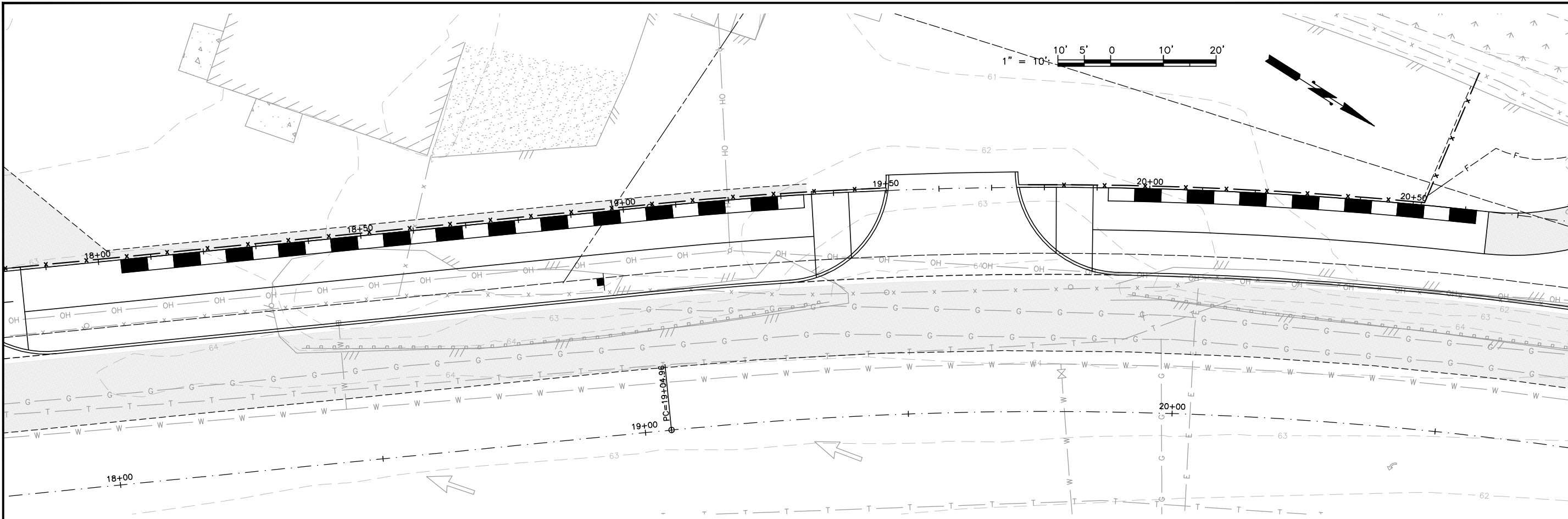
DATE: JAN. 2014  
SCALE:  
DRAWN:  
CHECKED: C.B.W.  
APPROVED: B.L.S.

No.	REVISION	DATE	APPD



CITY OF ISSAQUAH  
KING COUNTY  
EAST LAKE SAMMAMISH PARKWAY SE  
IMPROVEMENTS  
STORM DRAINAGE DETAILS

SHEET: 25  
OF: XX  
JOB NO.: 13570  
DWG: DRAINAGE\_DET3



**NOTE:**  
WALL PROFILES ARE TYPICAL ONLY.  
CONTRACTOR SHALL VERIFY AND  
ADJUST BLOCK LAYOUT AS REQUIRED.  
CONTRACTOR SHALL COORDINATE  
WITH ENGINEER.



0 1" 2"  
TWO INCHES AT FULL SCALE.  
IF NOT, SCALE ACCORDINGLY



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CONSULTING ENGINEERS  
701 DECKER AVENUE NORTH, SUITE 200  
SEATTLE, WASHINGTON 98109 • (206) 264-0860

DATE: JAN. 2014
SCALE: NOTED
DRAWN: C.B.W.
CHECKED: C.B.W.
APPROVED: B.L.S.

PRELIMINARY NOT FOR CONSTRUCTION	REVISION	DATE	APPD
			No.

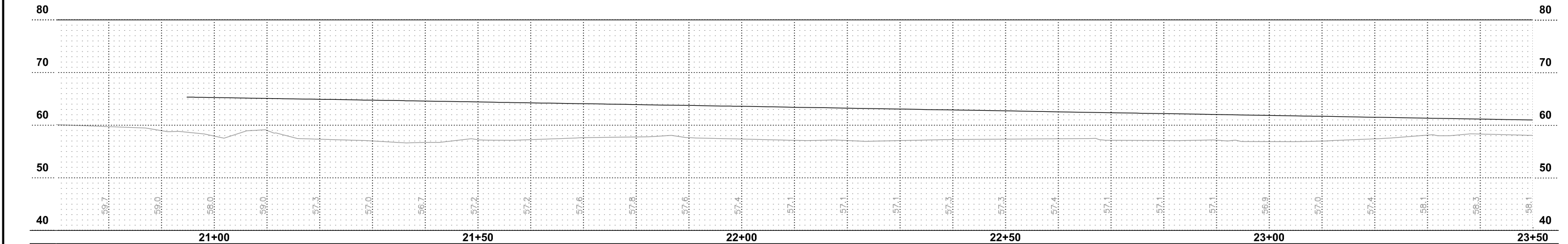
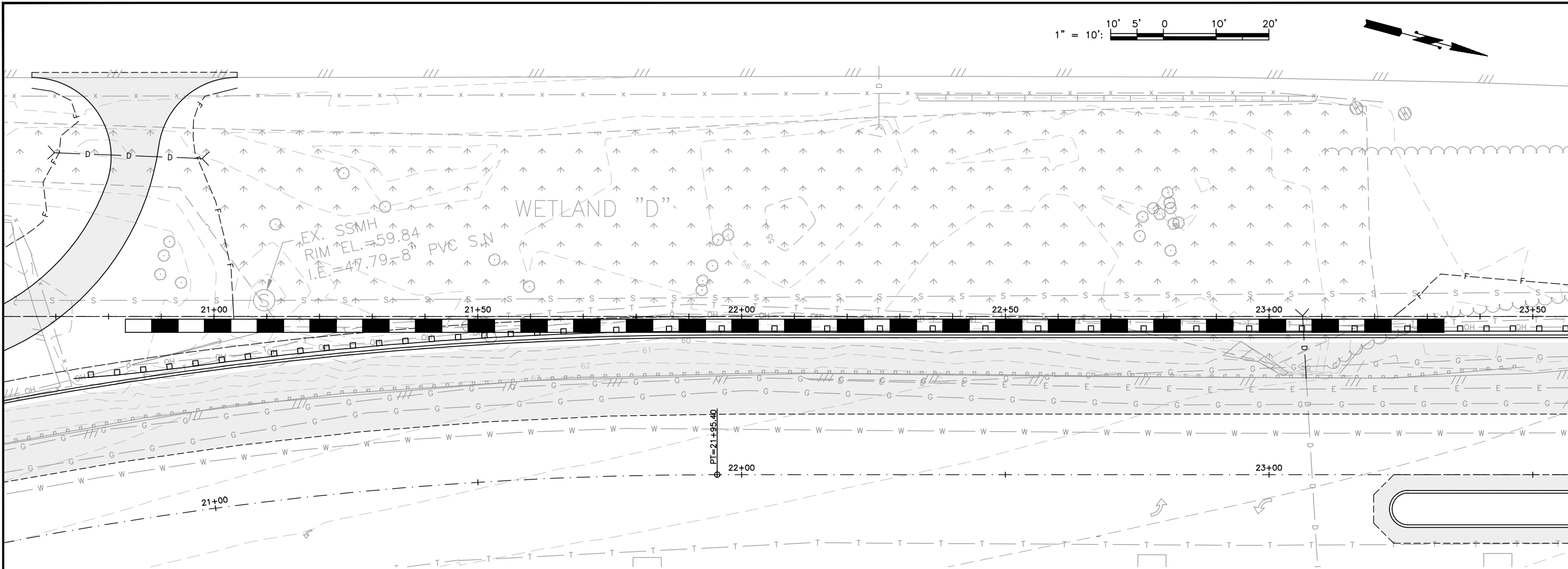


**CITY OF ISSAQUAH**  
KING COUNTY  
WASHINGTON

**EAST LAKE SAMMAMISH PARKWAY SE  
IMPROVEMENTS**

RETAINING WALL PLAN AND PROFILE

SHEET: 26
OF: XX
JOB NO.: 13570
DWG: WALL_PP



**NOTE:**  
WALL PROFILES ARE TYPICAL ONLY.  
CONTRACTOR SHALL VERIFY AND  
ADJUST BLOCK LAYOUT AS REQUIRED.  
CONTRACTOR SHALL COORDINATE  
WITH ENGINEER.

0 1" 2"  
TWO INCHES AT FULL SCALE.  
IF NOT, SCALE ACCORDINGLY

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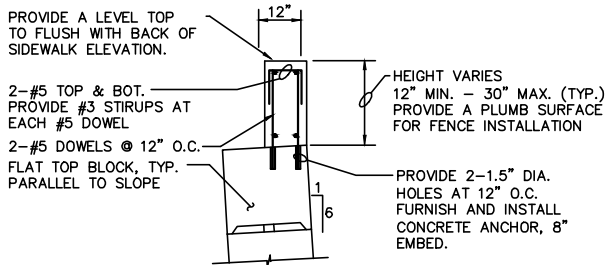
DATE: JAN. 2014
SCALE: NOTED
DRAWN: C.B.W.
CHECKED: C.B.W.
APPROVED: B.L.S.

No.	REVISION	DATE	APPD
PRELIMINARY NOT FOR CONSTRUCTION			

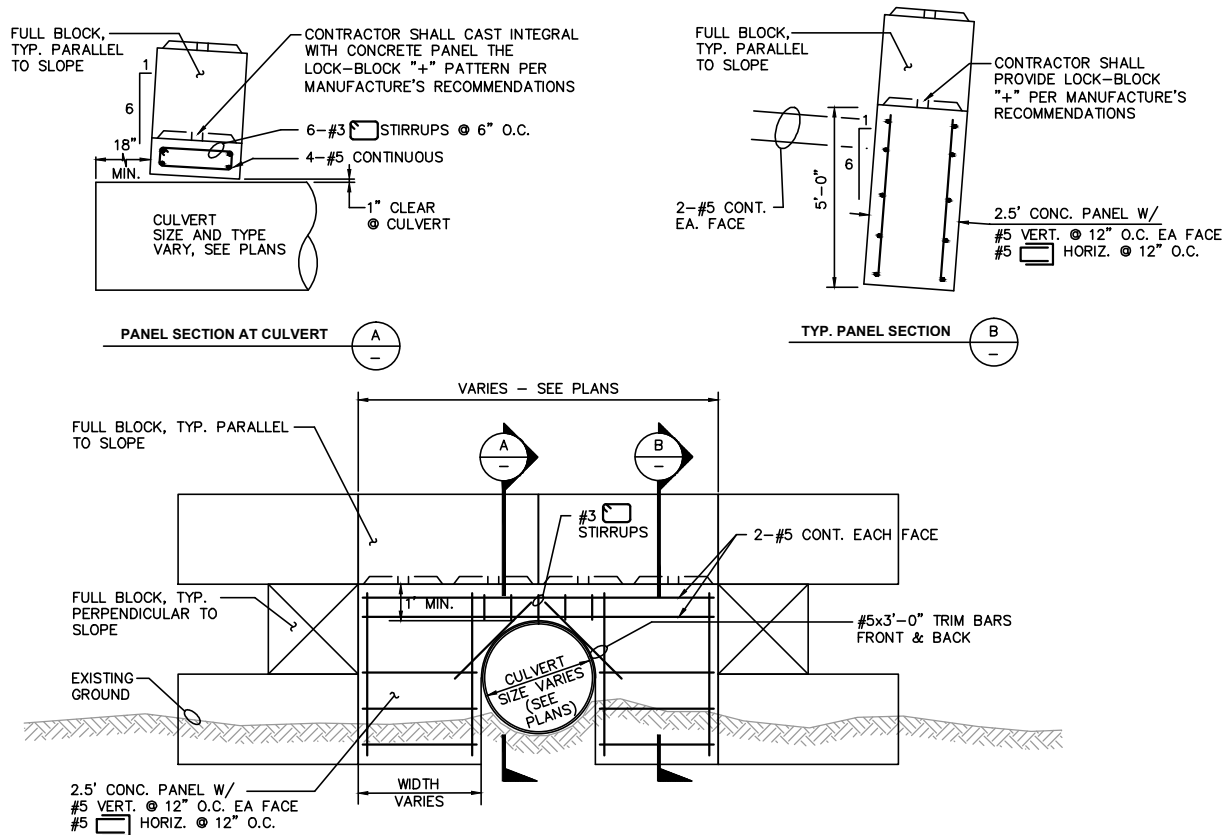
**CITY OF ISSAQUAH**  
KING COUNTY  
**EAST LAKE SAMMAMISH PARKWAY SE IMPROVEMENTS**  
RETAINING WALL PLAN AND PROFILE

SHEET: 27
OF: XX
JOB NO.: 13570
DWG: WALL_PP



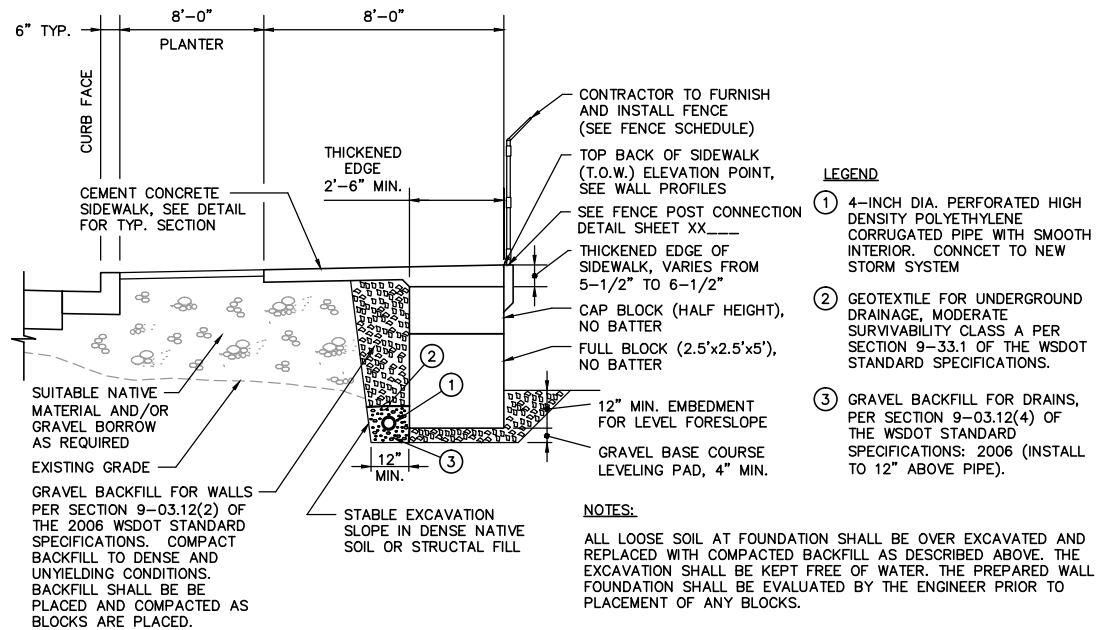


CONCRETE CAP DETAIL



CEMENT CONCRETE PANEL (TYP.)

SCALE: 3/8"=1'-0"



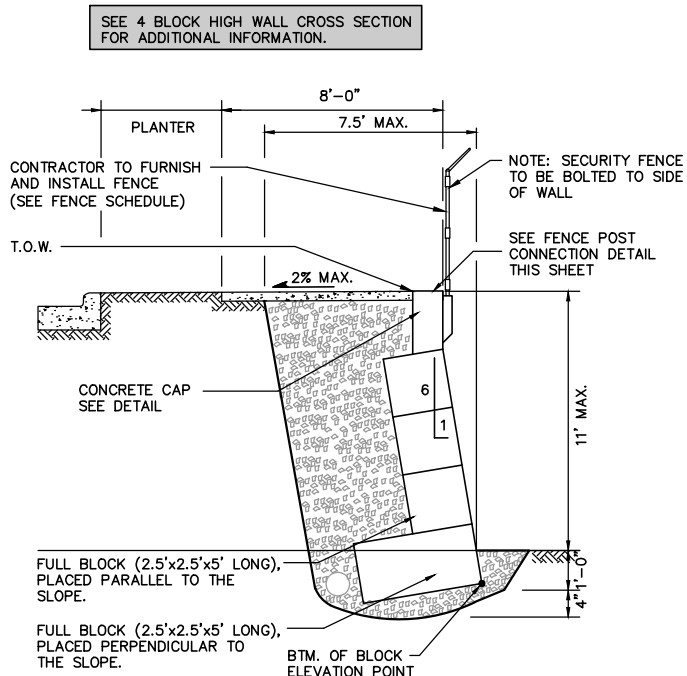
TYPICAL CROSS SECTION

SEGMENTAL BLOCK WALL (NO BATTER)  
APPROX. STA. 11+30 TO APPROX. STA. 17+30

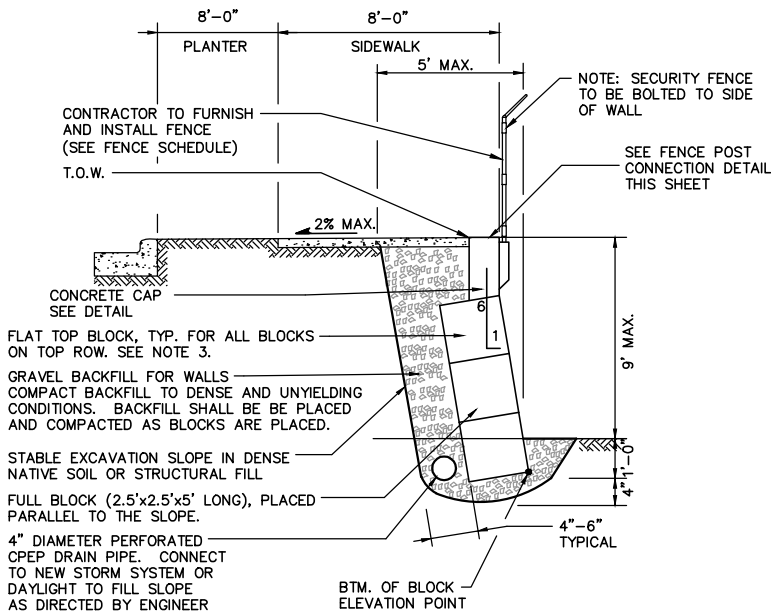
NOT TO SCALE

NOTE:

WALL PROFILES ARE TYPICAL ONLY. CONTRACTOR SHALL VERIFY AND ADJUST BLOCK LAYOUT AS REQUIRED. CONTRACTOR SHALL COORDINATE WITH ENGINEER.



5 BLOCK HIGH (AND HIGHER) WALL CROSS SECTION



4 BLOCK HIGH (AND LESS) WALL CROSS SECTION

BLOCK WALL NOTES:

- ALL LOOSE SOIL AT ROCKERY FOUNDATION SHALL BE OVER EXCAVATED AND REPLACED WITH COMPACTED BACKFILL AS DESCRIBED ABOVE. THE EXCAVATION SHALL BE KEPT FREE OF WATER. THE PREPARED WALL FOUNDATION SHALL BE EVALUATED BY A SOILS ENGINEER PRIOR TO PLACEMENT OF ANY BLOCKS.
- FOR TALLER WALL, PLACE AN ADDITIONAL ROW OF BLOCK, PERPENDICULAR TO THE SLOPE AT THE BOTTOM OF THE WALL. DO NOT EXCEED 6 BLOCKS TALL.
- ALL BLOCKS LOCATED ALONG THE TOP ROW SHALL BE FURNISHED WITH A FLAT TOP.

SEGMENTAL BLOCK WALL (WITH BATTER)

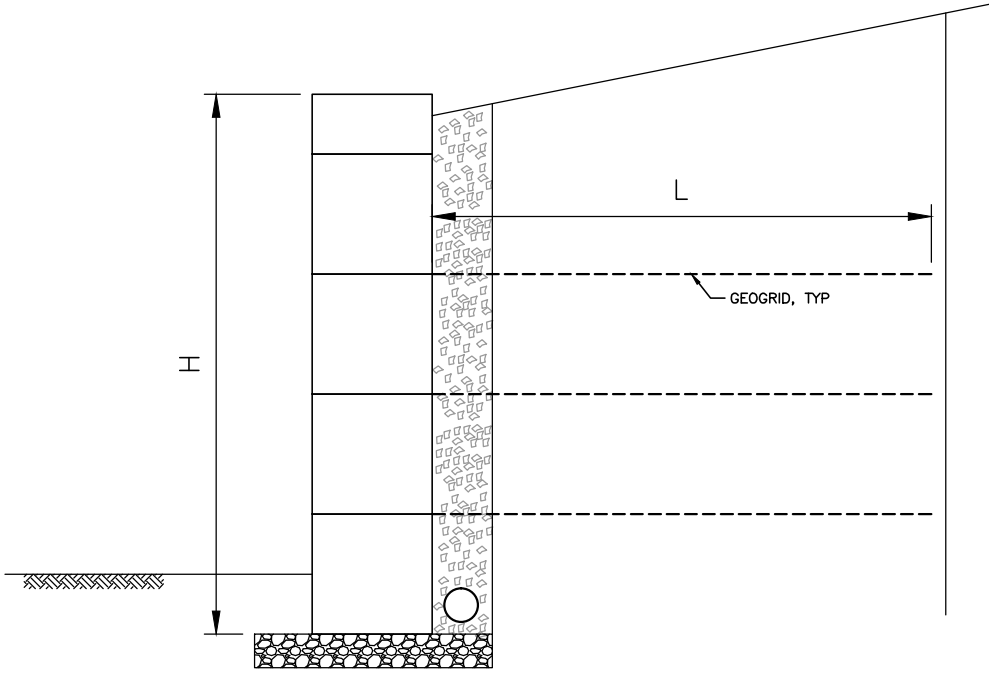
NOT TO SCALE

0 1" 2"  
TWO INCHES AT FULL SCALE.  
IF NOT, SCALE ACCORDINGLY

DATE: JAN. 2014	SCALE: NOTED	DRAWN: A.A.J.	CHECKED: C.B.W.	APPROVED: B.L.S.
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PRELIMINARY NOT FOR CONSTRUCTION	DATE	APPD
REVISION	DATE	APPD
No.	DATE	APPD

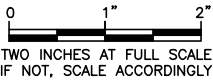




TYPICAL CROSS SECTION

SEGMENTAL COCRETE BLOCK MSE WALL (NO BATTER)

NOT TO SCALE



SHEET:	29
OF:	XX
JOB NO.:	13570
DWG:	WALL_2

CITY OF ISSAQUAH  
KING COUNTY  
WASHINGTON  
EAST LAKE SAMMAMISH PARKWAY SE  
IMPROVEMENTS  
RETAINING WALL DETAILS

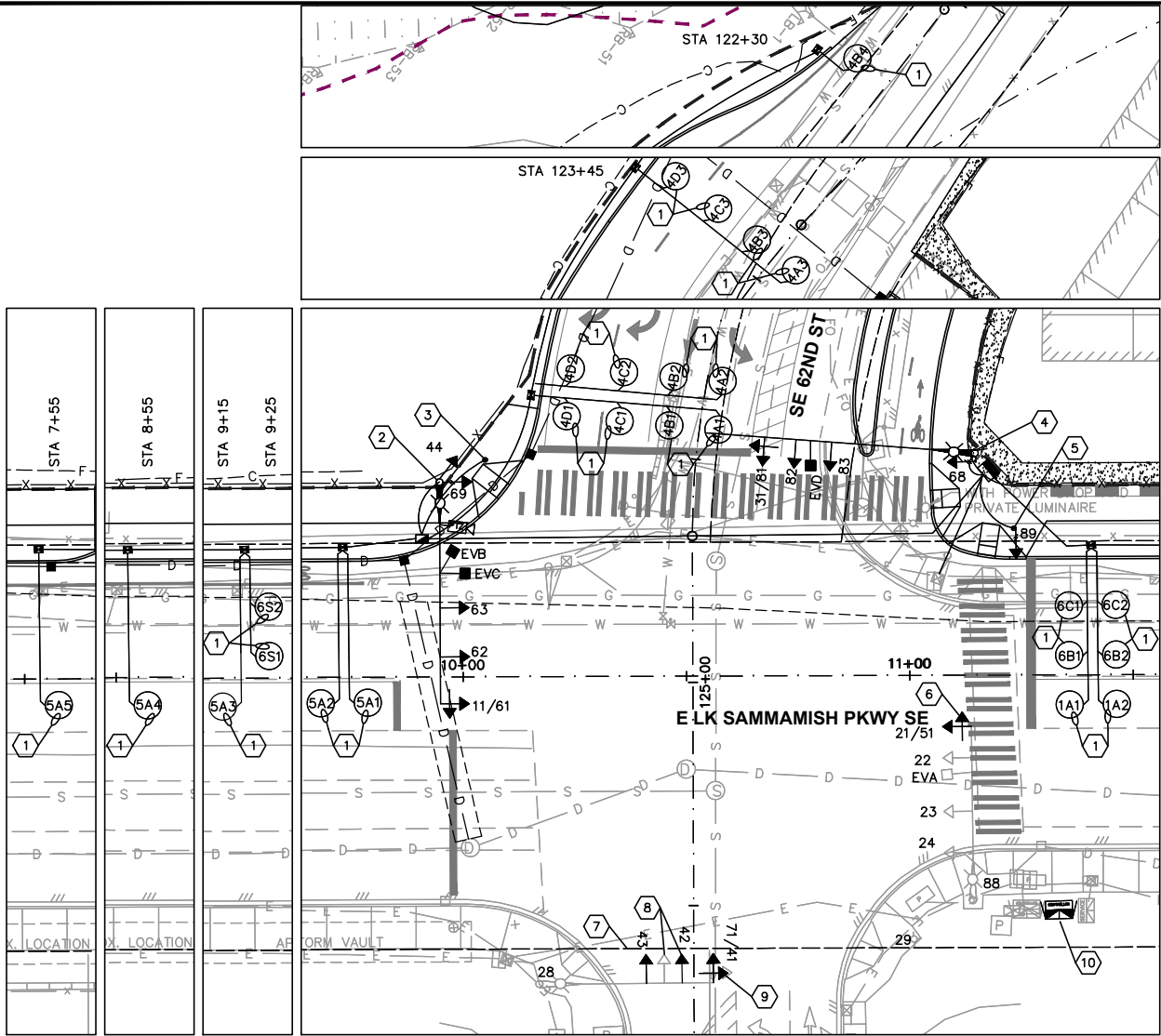


No.	REVISION	DATE	APPD

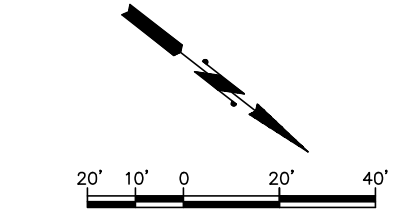
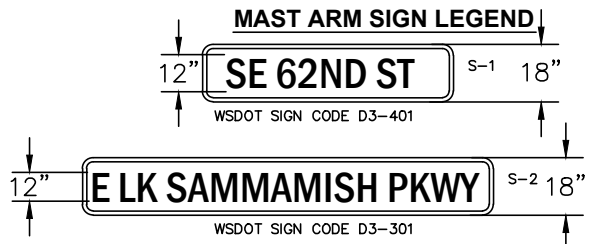
DATE: JAN. 2014	SCALE: NOTED	DRAWN: A.A.J.	CHECKED: C.B.W.	APPROVED: B.L.S.
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WIRE SCHEDULE

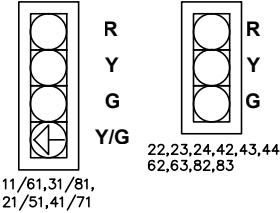


TRAFFIC SIGNAL SYMBOL LEGEND		
EXISTING	NEW	DESCRIPTION
		CONTROLLER CABINET
		SERVICE / ILLUMINATION CABINET
		TYPE III STEEL-MASTARM-SIGNAL POLE WITH LUMINAIRE
		TYPE II STEEL MAST-ARM SIGNAL POLE
		VEHICLE SIGNAL HEAD
		PEDESTRIAN SIGNAL HEAD
		OPTICAL DETECTOR
		TYPE I JUNCTION BOX
		TYPE 2 JUNCTION BOX
		TYPE 8 JUNCTION BOX
		CONDUIT
		VIDEO CAMERA
		VIDEO DETECTION ZONES
		MAST ARM SIGN
		SIGNAL POLE CONSTRUCTION NOTE
		WIRE NOTE

TRAFFIC SIGNAL CONSTRUCTION NOTES

- CONTRACTOR SHALL PROVIDE AND INSTALL ROUND TRAFFIC DETECTOR LOOP PER CITY OF ISSAQUAH STANDARD PLAN TS-02 AND TS-03.
- EXCAVATE AND CONSTRUCT FOUNDATION PER SIGNAL STANDARD SHEET AND WSDOT STD. PLAN J-26.10-02. PROVIDE AND INSTALL TYPE III SIGNAL POLE AND MAST ARM PER SIGNAL STANDARD SHEET, 1-250 WATT COBRA HEAD FIXTURE AND 16' LUMINAIRE ARM, 2 EMERGENCY PREEMPTION DETECTOR, 3 VEHICLE SIGNAL HEADS, 1 PEDESTRIAN SIGNAL HEAD, 1 PAN-TILT-ZOOM (PTZ) CAMERA. PROVIDE AND INSTALL STREET NAME SIGN.
- EXCAVATE AND CONSTRUCT FOUNDATION PER SIGNAL STANDARD SHEET AND WSDOT STD. PLAN J-21.10-03. PROVIDE AND INSTALL TYPE PPB SIGNAL POLE WITH SLIP BASE, AND 1 ACCESSIBLE PEDESTRIAN DETECTOR.
- EXCAVATE AND CONSTRUCT FOUNDATION PER SIGNAL STANDARD SHEET AND WSDOT STD. PLAN J-26.10-02. PROVIDE AND INSTALL TYPE III SIGNAL POLE AND MAST ARM PER SIGNAL STANDARD SHEET, 1-250 WATT COBRA HEAD FIXTURE AND 16' LUMINAIRE ARM, 1 EMERGENCY PREEMPTION DETECTOR, 3 VEHICLE SIGNAL HEADS, 1 PEDESTRIAN SIGNAL HEAD. PROVIDE AND INSTALL STREET NAME SIGN.
- EXCAVATE AND CONSTRUCT FOUNDATION PER SIGNAL STANDARD SHEET AND WSDOT STD. PLAN J-21.10-03. PROVIDE AND INSTALL TYPE PPB SIGNAL POLE WITH SLIP BASE, 1 PEDESTRIAN SIGNAL HEAD, 1 ACCESSIBLE PEDESTRIAN DETECTOR.
- REMOVE EXISTING 3 SECTION SIGNAL DISPLAY. PROVIDE AND INSTALL 4-SECTION SIGNAL DISPLAY WITH FLASHING YELLOW ARROW. PROVIDE AND INSTALL ASSOCIATED WIRING TO TERMINAL CABINET AND CONTROLLER.
- PROVIDE AND INSTALL 3-SECTION SIGNAL DISPLAY WITH ASTROBRACKET MOUNT. PROVIDE AND INSTALL ASSOCIATED WIRING TO TERMINAL CABINET AND CONTROLLER.
- RELOCATE EXISTING 3-SECTION SIGNAL HEAD TO EXISTING TENON AS SHOWN. PROVIDE AND INSTALL ASSOCIATED WIRING TO TERMINAL CABINET AND CONTROLLER.
- REMOVE EXISTING 5-SECTION (DOGHOUSE) SIGNAL DISPLAY. PROVIDE AND INSTALL 4-SECTION SIGNAL DISPLAY WITH FLASHING YELLOW ARROW. PROVIDE AND INSTALL ASSOCIATED WIRING TO TERMINAL CABINET AND CONTROLLER.
- EXCAVATE AND CONSTRUCT SERVICE AND CONTROLLER FOUNDATION PER CITY OF ISSAQUAH STANDARD PLAN TS-11. PROVIDE AND INSTALL CONTROLLER CABINET WITH ASSOCIATED CONTROLLER EQUIPMENT. CONTRACTOR SHALL COORDINATE WITH CITY OF ISSAQUAH FOR CONTROLLER DELIVERY

VEHICLE SIGNAL HEADS



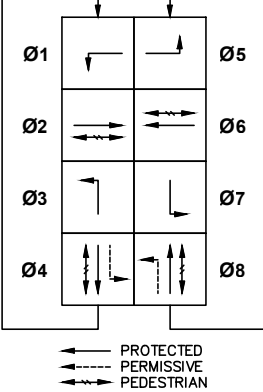
PEDESTRIAN SIGNAL HEADS



SIGNAL DISPLAY NOTES

- ALL VEHICLE AND PEDESTRIAN SIGNAL HEADS SHALL HAVE LED DISPLAYS.
- ALL VEHICLE HEADS SHALL BE ALUMINUM WITH 12" LENSES AND ALUMINUM TUNNEL VISORS. BACKPLATES SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD SPECIFICATION 9-29.16.
- VEHICLE SIGNAL HEADS SHALL HAVE TYPE M MOUNT PER WSDOT STD PLAN J-75.20-00.
- PEDESTRIAN SIGNAL HEADS SHALL HAVE COUNTDOWN DISPLAYS.
- PEDESTRIAN SIGNAL HEAD 68,69,88 AND 89 SHALL HAVE TYPE E MOUNT PER WSDOT STD PLAN J-75.10-01.

PHASE DIAGRAM



PREEMPTION SCHEDULE

PHASE	CHANNEL
Ø2	A
Ø4	B
Ø6	C
Ø8	D

**Gray & Osborne, Inc.**  
CONSULTING ENGINEERS  
701 DEXTER AVENUE NORTH, SUITE 200  
SEATTLE, WASHINGTON 98109 • (206) 284-0860

DATE: JAN. 2014  
SCALE: 1/4"=20'  
DRAWN: R.C.  
CHECKED: R.C.  
APPROVED: B.L.S.

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CONSTRUCTION

No. REVISION DATE APPD

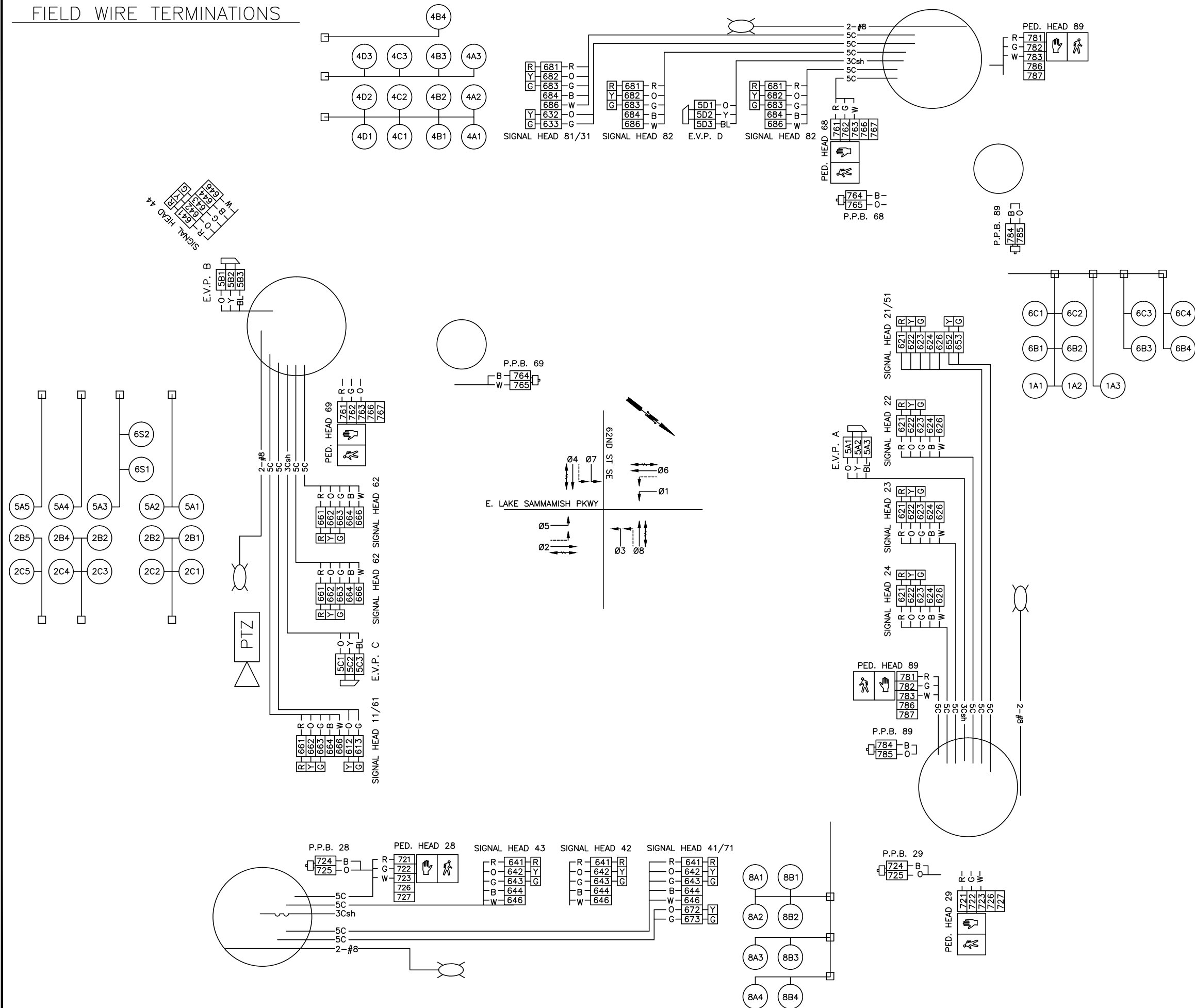
BRANT L. SOUTHWORTH  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF WASHINGTON  
36091

ROCKY CAMERON  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF WASHINGTON  
42008

CITY OF ISSAQUAH  
KING COUNTY  
EAST LAKE SAMMAMISH PARKWAY SE  
IMPROVEMENTS  
SIGNAL PLAN 1

SHEET: 30  
OF: XX  
JOB NO.: 13570  
DWG: SIGNAL

## FIELD WIRE TERMINATIONS



## CABINET WIRE TERMINATIONS

	VEHICLE DISPLAYS	
R	611	
O	612	
G	613	11
B	614	
W	616	
R	621	
O	622	21,22
G	623	
B	624	
W	626	
R	631	
O	632	
G	633	31
B	634	
W	636	
R	641	
O	642	41,42
G	643	
B	644	
W	646	
R	651	
O	652	
G	653	51
B	654	
W	656	
R	661	
O	662	
G	663	61,62
B	664	
W	666	
R	671	
O	672	
G	673	71
B	674	
W	676	
R	681	
O	682	
G	683	81,82
B	684	
W	686	





PEDESTRIAN DISPLAYS				
R	721	○	○	
G	722	○	○	02
W	723	○	○	28,29
R	741	○	○	
G	742	○	○	04
W	743	○	○	48,49
R	761	○	○	
G	762	○	○	06
W	763	○	○	68,69
R	781	○	○	
G	782	○	○	08
W	783	○	○	88,89

PEDESTRIAN DETECTION			
O	724		29
B	725		28
O	744		49
B	745		48
O	764		69
B	765		68
O	784		89
B	785		88

		TBS	
— B	501	1	AC+
— GRD		2	CG
— W	502	3	AC—
		4	
		5	

DETECTION				
O	5A1	<input type="radio"/>	A	02,05
Y	5A2	<input type="radio"/>		
BL	5A3	<input type="radio"/>		
O	5B1	<input type="radio"/>	B	04,07
Y	5B2	<input type="radio"/>		
BL	5B3	<input type="radio"/>		
O	5C1	<input type="radio"/>	C	01,06
Y	5C2	<input type="radio"/>		
BL	5C3	<input type="radio"/>		
O	5D1	<input type="radio"/>	D	03,08
Y	5D2	<input type="radio"/>		
BL	5D3	<input type="radio"/>		

TERMINAL LEGEND

	CONNECT TO TERMINAL BUS
	CONNECT TO SIDE TERMINAL CONNECTION
	CONNECT TO DETECTOR COMMON BUS
	SPARE

NOTE: TERMINATE ALL WIRING IDENTIFIED AS  
AC- (6\*6 AND 7\*3) AT THE AC- BUSS.

SEAL AND COIL ALL SPARE CONDUCTORS  
AND STORE NEATLY ON THE CABINET  
FLOOR.

KING COUNTY
-------------



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**CONSULTING ENGINEERS**  
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CONSTRUCTION**

No.

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1519

1

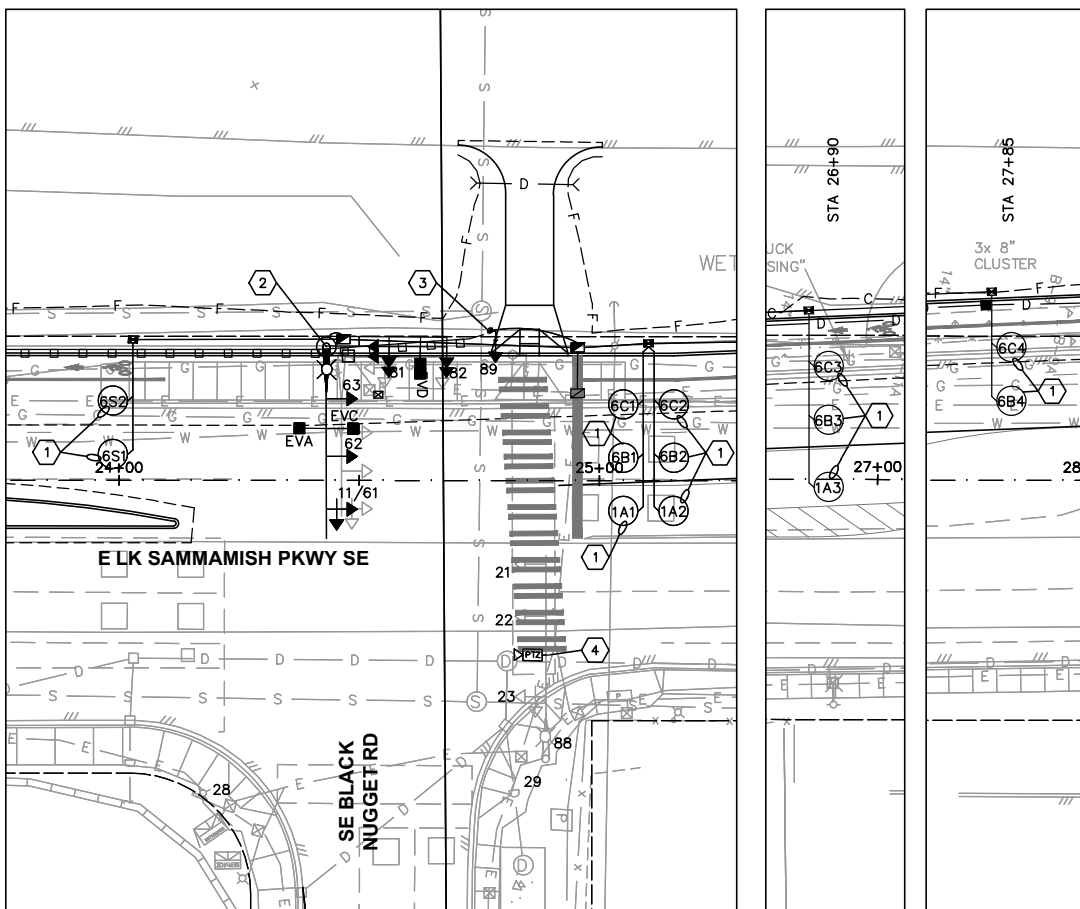
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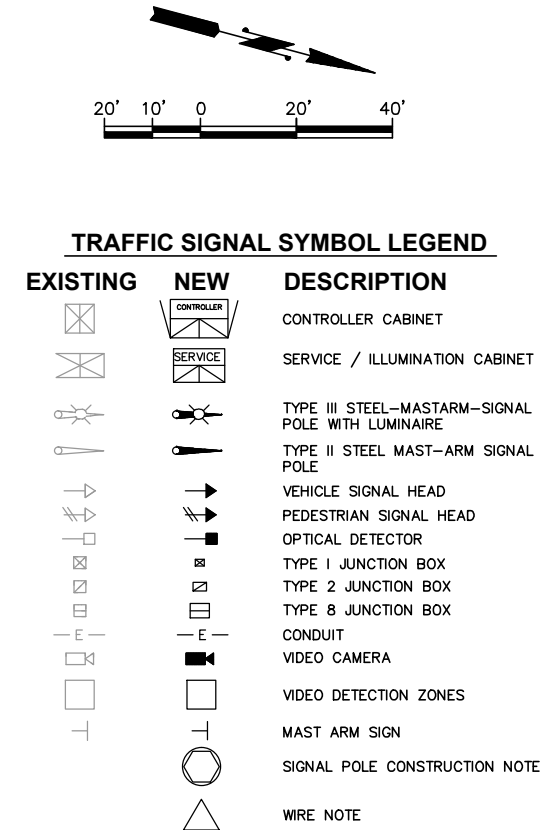
**CITY OF ISSAQUAH**  
KING COUNTY WASHINGTON  
**EAST LAKE SAMMAMISH PARKWAY SE**  
**IMPROVEMENTS**

## SIGNAL WIRING DIAGRAM 1

SHEET:	<b>31</b>
OF:	<b>XX</b>
JOB NO.:	13570
DWG:	SIGNAL

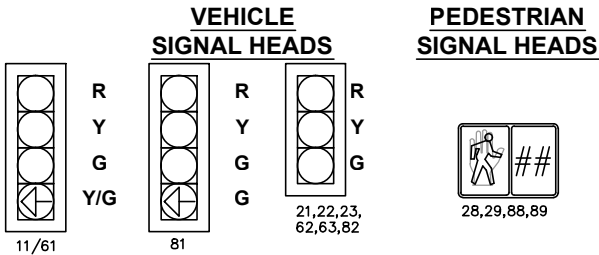


WIRE SCHEDULE



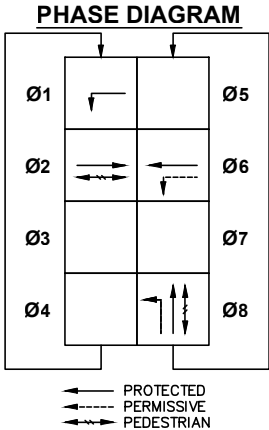
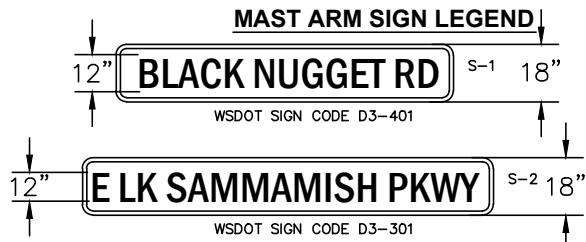
TRAFFIC SIGNAL CONSTRUCTION NOTES

- CONTRACTOR SHALL PROVIDE AND INSTALL ROUND TRAFFIC DETECTOR LOOP PER CITY OF ISSAQUAH STANDARD PLAN TS-02 AND TS-03.
- EXCAVATE AND CONSTRUCT FOUNDATION PER SIGNAL STANDARD SHEET AND WSDOT STD. PLAN J-26.10-02. PROVIDE AND INSTALL TYPE III SIGNAL POLE AND DUAL MAST ARM PER SIGNAL STANDARD SHEET, 1-250 WATT COBRA HEAD FIXTURE AND 16' LUMINAIRE ARM, 3 EMERGENCY PREEMPTION DETECTOR, 5 VEHICLE SIGNAL HEADS. PROVIDE AND INSTALL 2 STREET NAME SIGNS.
- EXCAVATE AND CONSTRUCT FOUNDATION PER SIGNAL STANDARD SHEET AND WSDOT STD. PLAN J-21.10-03. PROVIDE AND INSTALL TYPE PS SIGNAL POLE WITH SLIP BASE, 1 PEDESTRIAN DISPLAY, AND 1 ACCESSIBLE PEDESTRIAN DETECTOR.
- PROVIDE AND INSTALL PAN-TILT-ZOOM(P TZ) CAMERA ON EXISTING LUMINAIRE ARM, WIRING TO CONTROLLER, AND ASSOCIATED CONTROLLER EQUIPMENT. CONNECT TO PTZ CAMERA CONTROLLER TO THE CITY'S FIBER NETWORK.
- RELOCATE EXISTING 3-SECTION SIGNAL HEAD TO EXISTING TENON AS SHOWN. PROVIDE AND INSTALL ASSOCIATED WIRING TO TERMINAL CABINET AND CONTROLLER.



SIGNAL DISPLAY NOTES

- ALL VEHICLE AND PEDESTRIAN SIGNAL HEADS SHALL HAVE LED DISPLAYS.
- ALL VEHICLE HEADS SHALL BE ALUMINUM WITH 12" LENSES AND ALUMINUM TUNNEL VISORS. BACKPLATES SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD SPECIFICATION 9-29.16.
- VEHICLE SIGNAL HEADS SHALL HAVE TYPE M MOUNT PER WSDOT STD PLAN J-75.20-00.
- PEDESTRIAN SIGNAL HEADS SHALL HAVE COUNTDOWN DISPLAYS.
- PEDESTRIAN SIGNAL HEAD 89 SHALL HAVE TYPE D MOUNT PER WSDOT STD PLAN J-75.10-01.



**PREEMPTION SCHEDULE**

PHASE	CHANNEL
Ø2	A
Ø6	C
Ø8	D

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DRAWN: R.C.  
CHECKED: R.C.  
APPROVED: B.L.S.

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CONSTRUCTION

No. DATE APPD  
REVISION

BRANT L. SOUTHWICK  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF WASHINGTON  
36091

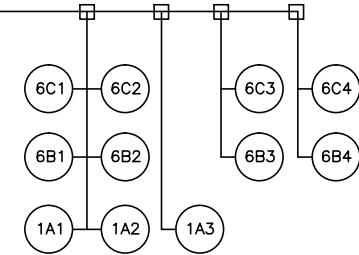
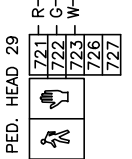
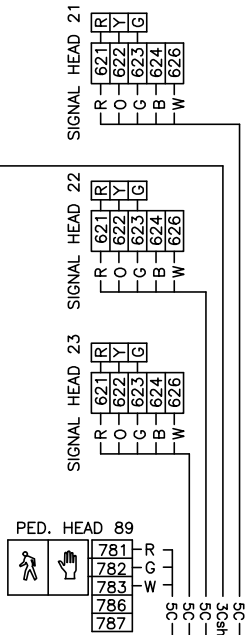
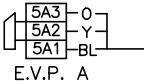
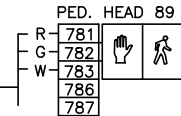
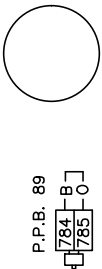
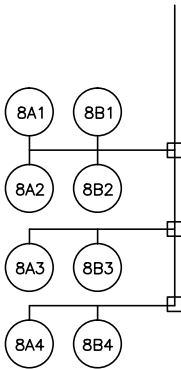
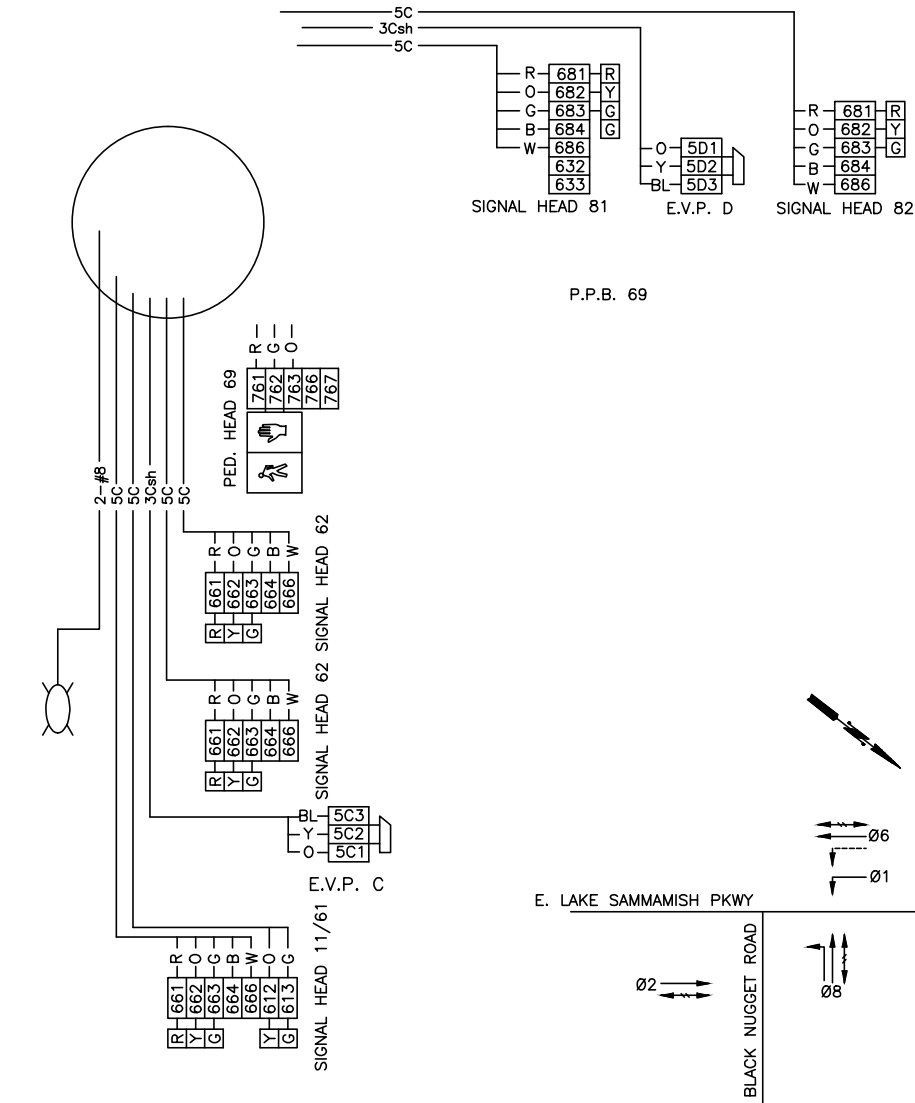
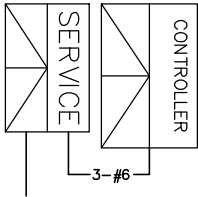
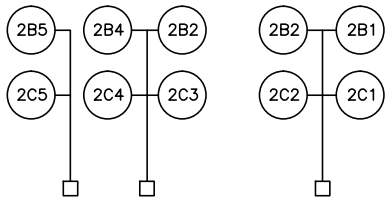
ROCKY CAMERON  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF WASHINGTON  
42008

CITY OF ISSAQUAH  
KING COUNTY  
EAST LAKE SAMMAMISH PARKWAY SE  
IMPROVEMENTS  
SIGNAL PLAN 2

SHEET: 32  
OF: XX  
JOB NO.: 13570  
DWG: SIGNAL



FIELD WIRE TERMINATIONS



CABINET WIRE TERMINATIONS

Table with 3 columns: Wire Label, Terminal, and Notes. Includes rows for B, GRD, W, and TBS.

- TERMINAL LEGEND
- CONNECT TO TERMINAL BUS
  - CONNECT TO SIDE TERMINAL CONNECTION
  - CONNECT TO DETECTOR COMMON BUS
  - SPARE

NOTE: TERMINATE ALL WIRING IDENTIFIED AS AC- (6\*6 AND 7\*3) AT THE AC- BUSS.

SEAL AND COIL ALL SPARE CONDUCTORS AND STORE NEATLY ON THE CABINET FLOOR.

Table with 3 columns: Signal Head, Terminal, and Notes. Includes rows for Signal Head 81, Signal Head 82, Signal Head 62, Signal Head 69, and Signal Head 21 through 23.

Table with 3 columns: Signal Head, Terminal, and Notes. Includes rows for Signal Head 21, Signal Head 22, Signal Head 23, and Signal Head 28.

Table with 3 columns: Signal Head, Terminal, and Notes. Includes rows for Signal Head 21, Signal Head 22, Signal Head 23, and Signal Head 28.

Table with 3 columns: Signal Head, Terminal, and Notes. Includes rows for Signal Head 21, Signal Head 22, Signal Head 23, and Signal Head 28.

KING COUNTY

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SCALE: H: 1" = 20'  
V: 1" = 2'  
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CHECKED: R.C.  
APPROVED: B.L.S.

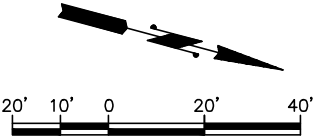
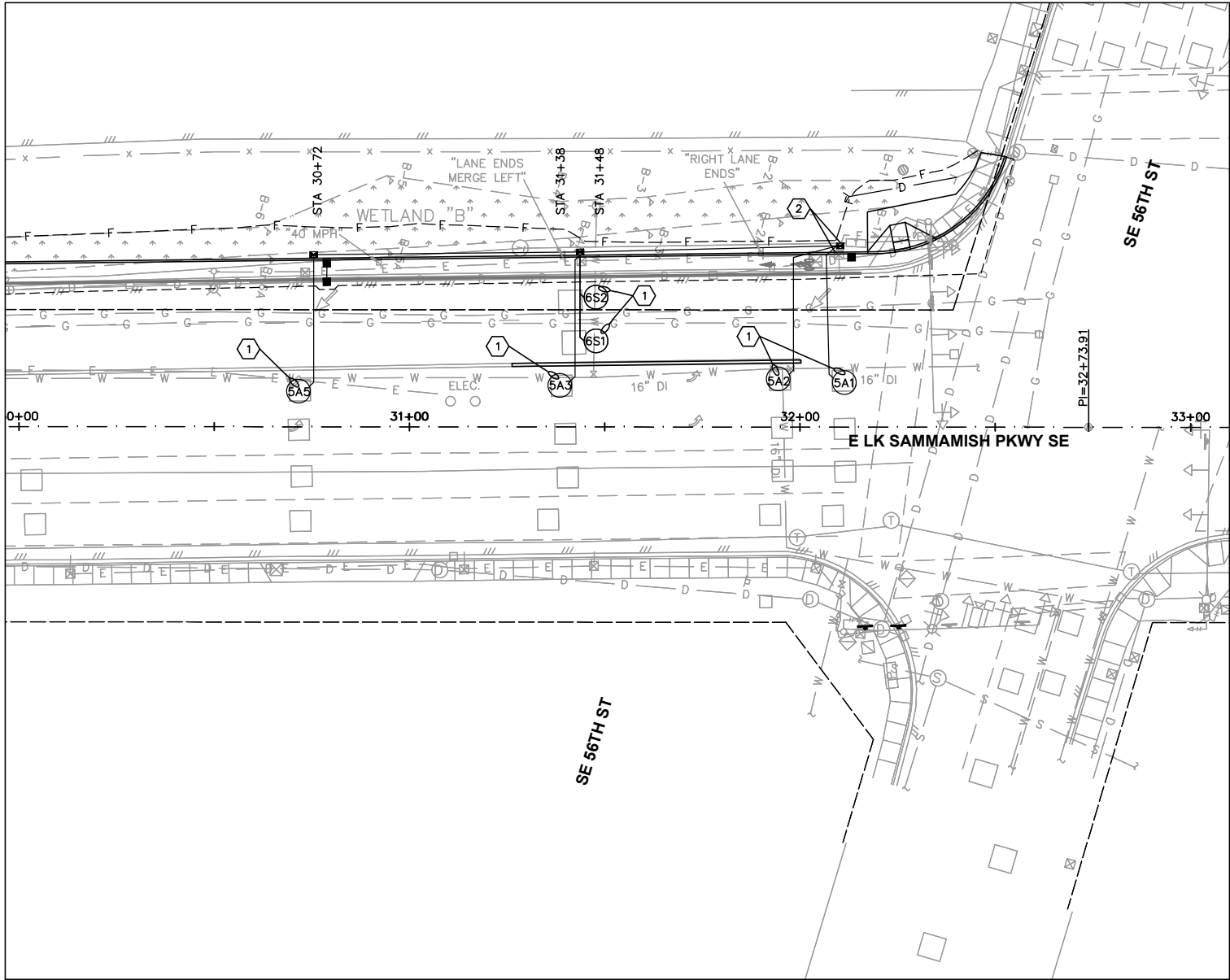
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No.

**CITY OF ISSAQUAH**  
WASHINGTON  
**EAST LAKE SAMMAMISH PARKWAY SE IMPROVEMENTS**  
SIGNAL WIRING DIAGRAM 2

SHEET: **33**  
OF: **XX**  
JOB NO.: 13570  
DWG: SIGNAL



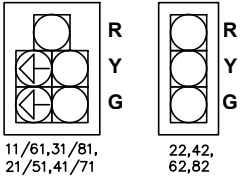
TRAFFIC SIGNAL CONSTRUCTION NOTES

- 1 CONTRACTOR SHALL PROVIDE AND INSTALL ROUND TRAFFIC DETECTOR LOOP PER CITY OF ISSAQUAH STANDARD PLAN TS-02 AND TS-03.
- 2 PULL EXISTING WIRE IN EXISTING JUNCTION BOX TO NEAREST JUNCTION BOX TO MAINTAIN CONTINUOUS LINE TO CONTROLLER. INTERCEPT EXISTING CONDUIT AND ROUTE EXISTING CONDUIT TO PROPOSED JUNCTION BOX PER CITY OF ISSAQUAH STANDARD PLAN TS-06

TRAFFIC SIGNAL SYMBOL LEGEND

EXISTING	NEW	DESCRIPTION
		CONTROLLER CABINET
		SERVICE / ILLUMINATION CABINET
		TYPE III STEEL-MASTARM-SIGNAL POLE WITH LUMINAIRE
		TYPE II STEEL MAST-ARM SIGNAL POLE
		VEHICLE SIGNAL HEAD
		PEDESTRIAN SIGNAL HEAD
		OPTICAL DETECTOR
		TYPE 1 JUNCTION BOX
		TYPE 2 JUNCTION BOX
		TYPE 8 JUNCTION BOX
		CONDUIT
		VIDEO CAMERA
		VIDEO DETECTION ZONES
		MAST ARM SIGN
		SIGNAL POLE CONSTRUCTION NOTE
		WIRE NOTE

VEHICLE  
SIGNAL HEADS



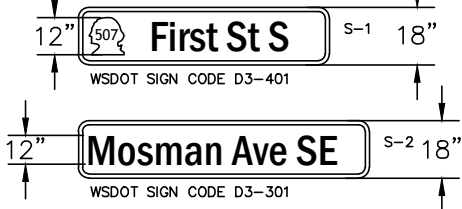
PEDESTRIAN  
SIGNAL HEADS



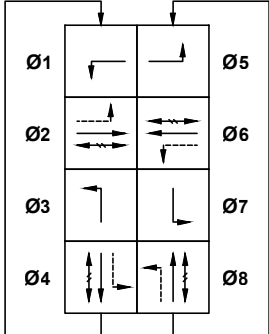
SIGNAL DISPLAY NOTES

1. ALL VEHICLE AND PEDESTRIAN SIGNAL HEADS SHALL HAVE LED DISPLAYS.
2. ALL VEHICLE HEADS SHALL BE ALUMINUM WITH 12" LENSES AND ALUMINUM TUNNEL VISORS. BACKPLATES SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD SPECIFICATION 9-29.16.
3. VEHICLE SIGNAL HEADS SHALL HAVE TYPE M MOUNT PER WSDOT STD PLAN J-75.20-00.
4. PEDESTRIAN SIGNAL HEADS SHALL HAVE COUNTDOWN DISPLAYS.
5. PEDESTRIAN SIGNAL HEAD 28,48,68, AND 88 SHALL HAVE TYPE E MOUNT PER WSDOT STD PLAN J-75.10-01.
6. PEDESTRIAN SIGNAL HEAD 29,49,69, AND 89 SHALL HAVE TYPE D MOUNT PER WSDOT STD PLAN J-75.10-01.

MAST ARM SIGN LEGEND



PHASE DIAGRAM



PREEMPTION  
SCHEDULE

PHASE	CHANNEL
Ø2	A
Ø4	B
Ø6	C
Ø8	D

VIDEO DETECTION  
SCHEDULE

PHASE	CHANNEL
Ø2	A
Ø4	B
Ø6	C
Ø8	D

← PROTECTED  
--- PERMISSIVE  
→ PEDESTRIAN

WIRE SCHEDULE



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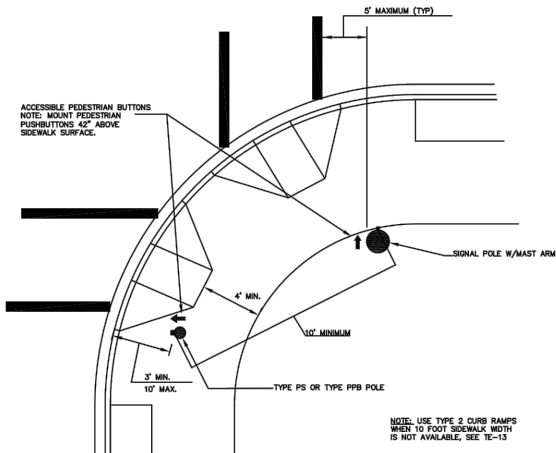
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CONSTRUCTION

DATE APPD  
REVISION  
No.

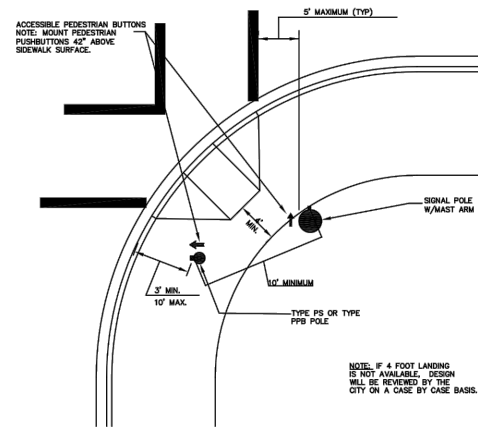


**CITY OF ISSAQUAH**  
KING COUNTY  
**EAST LAKE SAMMAMISH PARKWAY SE  
IMPROVEMENTS**  
SIGNAL DETAILS 1

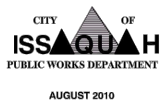
SHEET: 35  
OF: XX  
JOB NO.: 13570  
DWG: SIGNAL



TWO CURB-CUT RAMPS



ONE CURB-CUT RAMP Back to Table of Contents NO SCALE

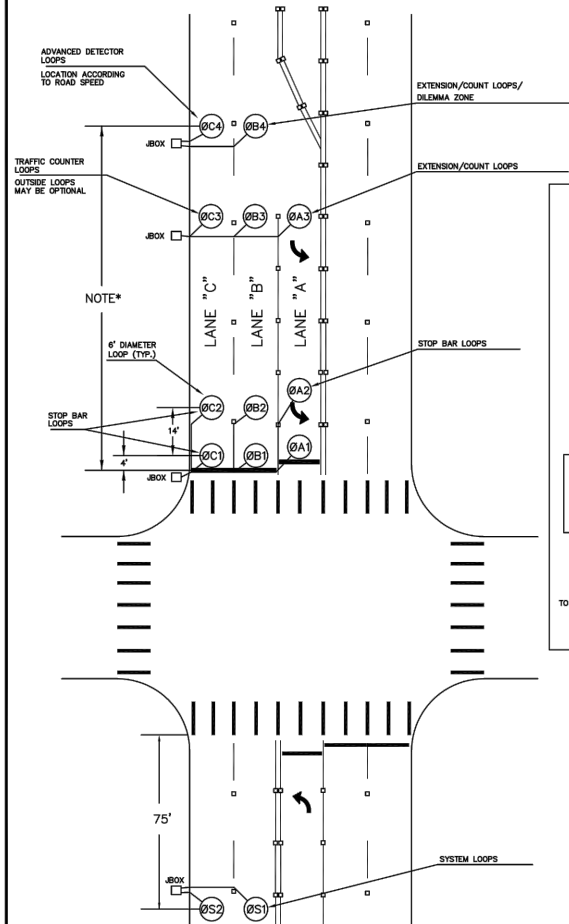


**TYPICAL ACCESSIBLE PEDESTRIAN  
SIGNAL DEVICE LOCATIONS  
(TYPE 1 RAMPS)**

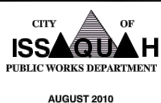
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STANDARD  
DETAIL NO.  
TS-01

REV:



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**TRAFFIC LOOP DETAIL  
(SHEET 1 OF 3)**

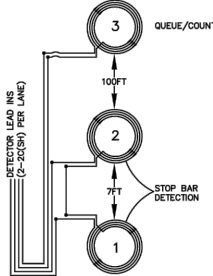
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STANDARD  
DETAIL NO.  
TS-02

REV:

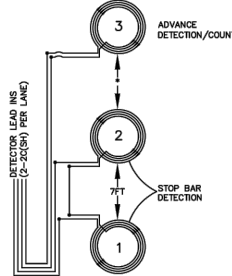
85TH PERCENTILE SPEED<35MPH  
NO DILEMMA ZONE

SERIES CONNECTED  
LOOPS 1 AND 2;  
QUEUE/COUNT LOOP 3



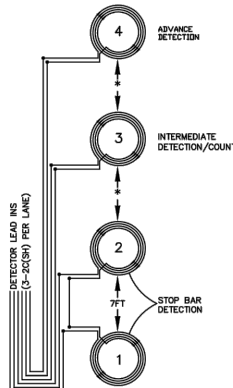
85TH PERCENTILE SPEED=35MPH  
SINGLE ADVANCE LOOP FOR DILEMMA ZONE\*

SERIES CONNECTED  
LOOPS 1 AND 2;  
COUNT LOOP 3



85TH PERCENTILE SPEED=35MPH  
DOUBLE ADVANCE LOOPS FOR DILEMMA ZONE\*

SERIES CONNECTED  
LOOPS 1, 2, COUNT LOOP 3 AND DILEMMA  
ZONE LOOP 4



NOTE:  
WIRING FOR ALL LOOPS TO BE LABELLED WITH NUMBERS  
PER EXAMPLE BELOW.

LOOP LEAD IN WIRE LABEL:

L X X X - X X - X X

DETECTOR INPUT

DASH

LOOP SERIES NUMBER

Back to Table of Contents NO SCALE



**TRAFFIC LOOP DETAIL  
(SHEET 2 OF 3)**

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STANDARD  
DETAIL NO.  
TS-03

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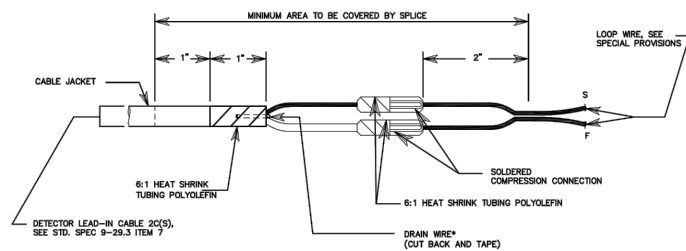
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NOT FOR  
CONSTRUCTION

DATE APPD  
REVISION  
No.



**CITY OF ISSAQUAH**  
KING COUNTY  
**EAST LAKE SAMMAMISH PARKWAY SE IMPROVEMENTS**  
SIGNAL DETAILS 1

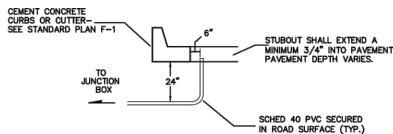
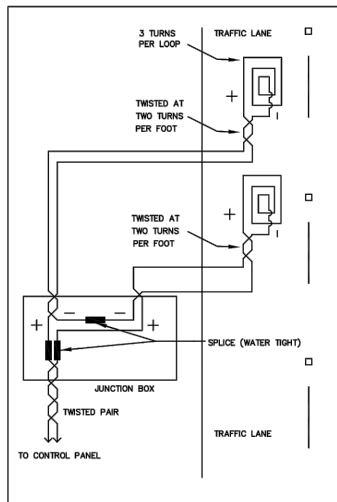
SHEET: 36  
OF: XX  
JOB NO.: 13570  
DWG: SIGNAL



NOTE:  
SPlice kits shall be centered on conductors and sufficient slack shall be provided that the splice can be raised a minimum of 18" above ground line.

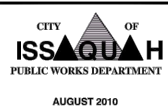
SPlice DETAIL

\* GROUND DRAIN WIRE AT AMPLIFIER ONLY.  
SEE SPECIAL PROVISIONS FOR SPlice MATERIAL.

LOOP STUBOUT  
CONDUIT PLACEMENT DETAILSSERIES LOOPS  
ELECTRICAL DETAIL

Back to Table of Contents

NO SCALE

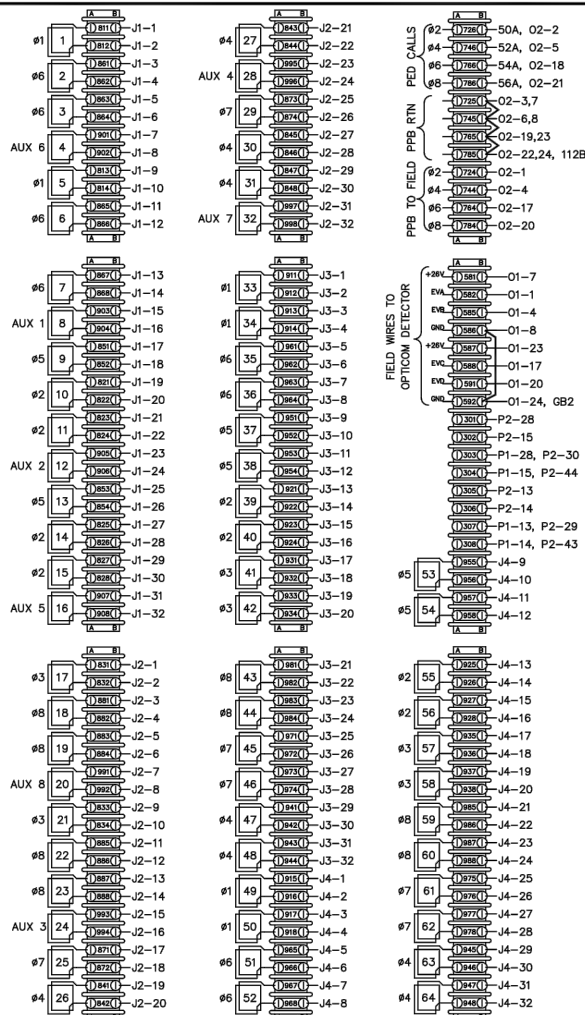


**TRAFFIC LOOP DETAIL**  
(SHEET 3 OF 3)

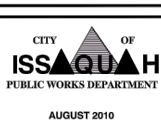
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STANDARD  
DETAIL NO.  
TS-04

REV:



NO SCALE

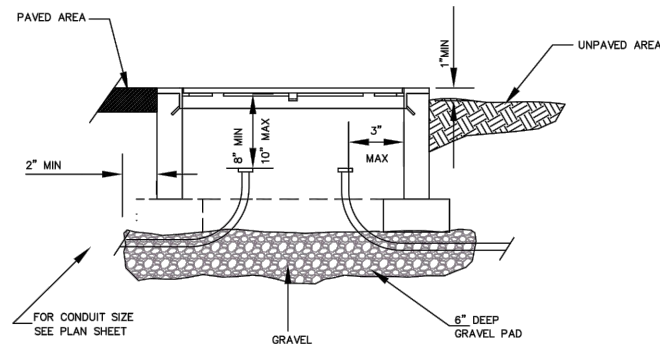


Back to Table of Contents  
**LOOP DETECTION**  
**INPUT TERMINATIONS**

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STANDARD  
DETAIL NO.  
TS-05

REV:



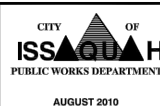
TYP J-BOX INSTALLATION

## NOTES:

- ALL DIMENSIONS ARE MINIMUM. EXACT CONFIGURATIONS VARY AMONG DIFFERENT MANUFACTURERS.
- THE NOTED LID THICKNESSES ARE OVERALL MINIMUMS. THE DIAMOND PATTERN FOR TYPE 1 OR TYPE 2 BOXES SHALL BE 28% MINIMUM OF OVERALL THICKNESS. THE DIAMOND PATTERN FOR TYPE 8 BOXES SHALL BE 3/32" MINIMUM THICK.
- LID SUPPORT MEMBERS SHALL BE WELDED TO FRAME.
- 4000 PSI CONCRETE IS ALLOWED IF BOX REINFORCEMENT CONSISTS OF 6x6 - W3x3 WELDED WIRE FABRIC WELDED TO THE FRAME.
- WHEN NOTED IN THE CONTRACT TYPE 2 AND TYPE 8 BOXES SHALL BE PROVIDED WITH 12" DEEP EXTENSION BOXES.
- WHEN NOTED IN THE CONTRACT TYPE 2 BOXES SHALL BE PROVIDED WITH A 10"x27 1/2" 10 GAGE DIVIDER PLATE COMPLETE WITH FASTENERS.
- NON CONCRETE BOXES MAY BE SUBMITTED FOR APPROVAL EVALUATION WILL INCLUDE AN H-20 LOAD TEST.
- ALL BOXES WILL BE CITY OF ISSAQUAH ENGINEER APPROVED AND CERTIFIED.
- LEGEND FOR TRAFFIC SIGNAL SYSTEM BOXES WILL BE "TS", AND "LT" FOR ILLUMINATION SYSTEMS. LEGEND FOR COMMUNICATIONS OR FIBER SYSTEM BOXES WILL BE "COM". LEGEND LETTERS WILL BE FORMED WITH 1/8" WELD BEAD. GRIND OFF DIAMOND PATTERN BEFORE FORMING LETTERS.
- JUNCTION BOXES WITHIN SIDEWALK SHALL HAVE NO-SKID LIDS.

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NO SCALE



**TRAFFIC SIGNAL**  
**JUNCTION BOX DETAILS**

NOTE: THE ORIGINAL IS SIGNED BY THE ENGINEER, APPROVED FOR PUBLICATION AND FILED AT THE CITY OF ISSAQUAH PUBLIC WORKS ENGINEERING OFFICE.

STANDARD  
DETAIL NO.  
TS-06

REV:



**Gray & Osborne, Inc.**  
CONSULTING ENGINEERS  
701 DEXTER AVENUE NORTH, SUITE 200  
SEATTLE, WASHINGTON 98109 • (206) 284-0860

DATE: JAN. 2014  
SCALE: H: 1" = 20'  
V: 1" = 2'  
DRAWN: R.C.  
CHECKED: R.C.  
APPROVED: B.L.S.

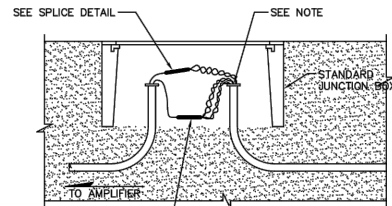
PRELIMINARY  
NOT FOR  
CONSTRUCTION

DATE APPD  
REVISION  
No.

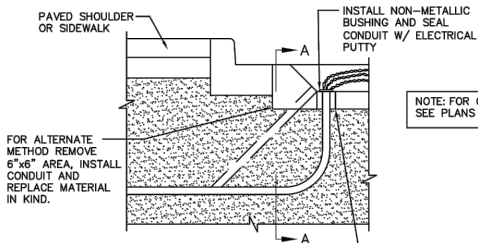


**CITY OF ISSAQUAH**  
KING COUNTY  
**EAST LAKE SAMMAMISH PARKWAY SE  
IMPROVEMENTS**  
SIGNAL DETAILS 1

SHEET: 37  
OF: XX  
JOB NO.: 13570  
DWG: SIGNAL

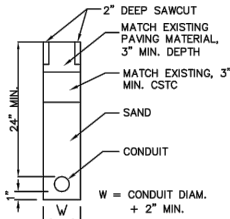


SUPPLEMENTAL SPLICES IF  
REQUIRED IN PLANS  
(SEE LOOP INSTALLATION NOTES)

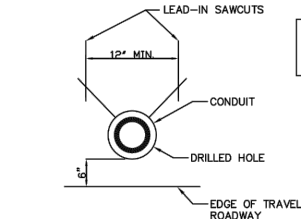


NOTE: FOR CONDUIT SIZE  
SEE PLANS

TYPICAL CONDUIT PLACEMENT FOR LOOP LEAD-IN WIRES



SECTION A-A

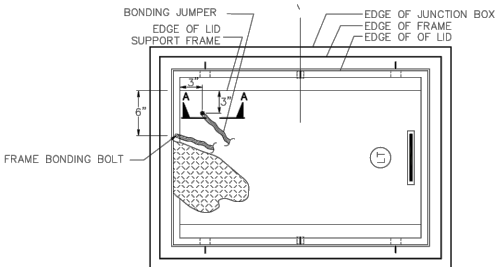


LEAD-IN SAWCUTS  
AND CONDUIT PLACEMENT DETAIL

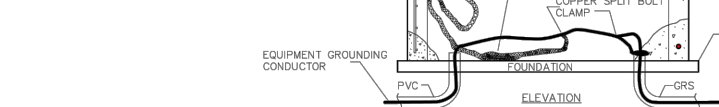
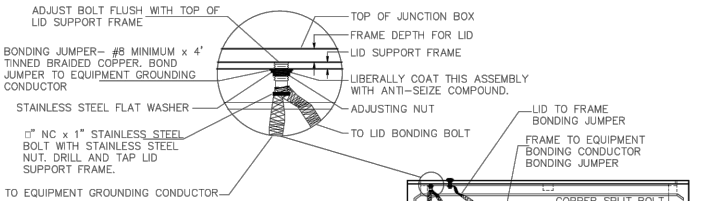
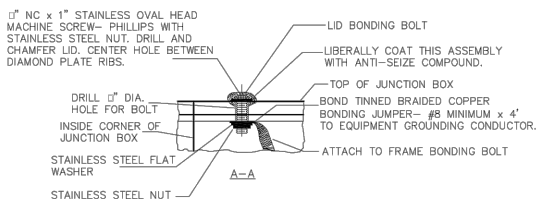
NOTE: PVC BUSHING  
ON ALL CONDUIT IN JB  
AND CONTROLLER  
CABINET.

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NO SCALE



PLAN

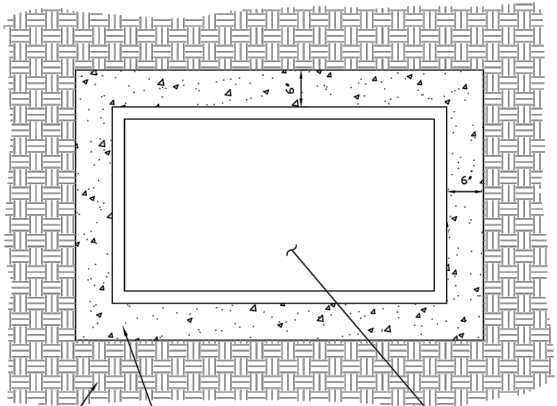


ELEVATION

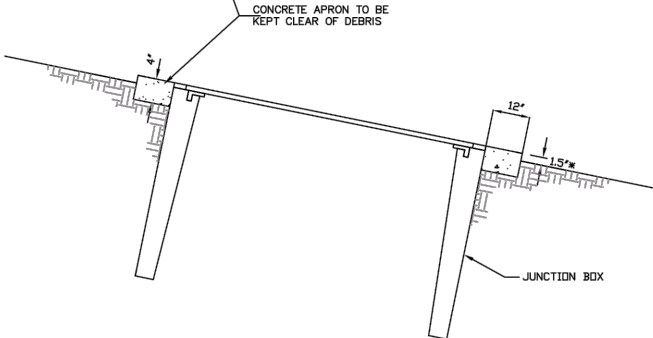
- NOTES:
1. BOND LIDS TO FRAME.
  2. BONDING JUMPER IS TINNED BRAIDED COPPER - #8 MINIMUM x 4 FEET.
  3. BOND FRAME TO EQUIPMENT GROUNDING CONDUCTOR.

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NO SCALE



PLAN



CROSS SECTION

\* NOTE: DO NOT PROVIDE 1.5" CLEARANCE WITHIN PEDESTRIAN FACILITIES

[Back to Table of Contents](#)

NO SCALE

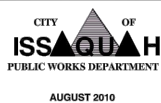


**TYPICAL CONDUIT PLACEMENT  
FOR LOOP DETECTORS**

NOTE: THE ORIGINAL IS SIGNED BY THE ENGINEER, APPROVED FOR PUBLICATION AND FILED AT  
THE CITY OF ISSAQUAH PUBLIC WORKS ENGINEERING OFFICE.

STANDARD  
DETAIL NO.  
TS-07

REV:



**TYPE 1,2,3,7, & 8 JUNCTION BOX  
EXISTING FRAME &  
LID BONDING DETAIL**

NOTE: THE ORIGINAL IS SIGNED BY THE ENGINEER, APPROVED FOR PUBLICATION AND FILED AT  
THE CITY OF ISSAQUAH PUBLIC WORKS ENGINEERING OFFICE.

STANDARD  
DETAIL NO.  
TS-08

REV:



**JUNCTION BOX ON GRADE  
FOR LANDSCAPE AREAS**

NOTE: THE ORIGINAL IS SIGNED BY THE ENGINEER, APPROVED FOR PUBLICATION AND FILED AT  
THE CITY OF ISSAQUAH PUBLIC WORKS ENGINEERING OFFICE.

STANDARD  
DETAIL NO.  
TS-09

REV:





**Gray & Osborne, Inc.**  
CONSULTING ENGINEERS  
701 DEXTER AVENUE NORTH, SUITE 200  
SEATTLE, WASHINGTON 98109 • (206) 284-0860

DATE: JAN. 2014  
SCALE: H: 1"=20'  
V: 1"=2'  
DRAWN: R.C.  
CHECKED: R.C.  
APPROVED: B.L.S.

PRELIMINARY  
NOT FOR  
CONSTRUCTION

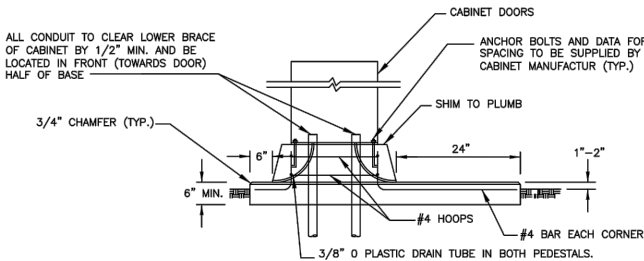
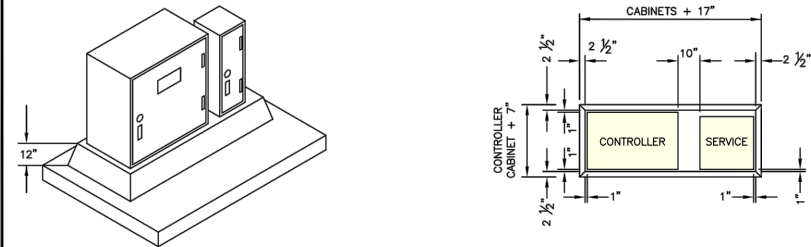
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**CITY OF ISSAQUAH**  
KING COUNTY  
**EAST LAKE SAMMAMISH PARKWAY SE  
IMPROVEMENTS**  
SIGNAL DETAILS 1

SHEET: 38  
OF: XX

JOB NO.: 13570  
DWG: SIGNAL



NOTES:

1. CABINET FOUNDATION SHALL BE CLASS 3000 AIR ENTRAINED CONCRETE.
2. WHERE CABINET FOUNDATION IS LOCATED ADJACENT TO A SIDEWALK, CONSTRUCT THE TOP FLUSH WITH SIDEWALK GRADE, OMITTING CHAMFER WHERE TOP AND SIDEWALK ABUT.
3. FOUNDATION DESIGN IS TYPICAL, CONTRACTOR SHALL UTILIZE CABINET MANUFACTURE'S SPECIFICATIONS TO ASSURE PROPER FIT OF CABINET ON BASE WITH RESPECT TO CONDUIT PLACEMENT. ENGINEER MUST APPROVE FORM WORK BEFORE PLACEMENT OF CONCRETE.
4. EXPANSION ANCHOR BOLTS (KWIK-BOLT, WEJ-IT, OR EQUAL) MAY BE USED TO FIT CABINETS TO EXISTING FOUNDATION. SILICON SEAL SHALL BE PLACED BETWEEN CABINET AND BASE.
5. SEE PLANS FOR DOOR ORIENTATION.
6. A SPARE 3"Ø CONDUIT SHALL BE INSTALLED FROM CONTROLLER CABINET TO NEAREST J-BOX.
7. A 1"Ø CONDUIT SHALL BE INSTALLED UNDER SERVICE CABINET FOR GROUND.

[Back to Table of Contents](#) | NO SCALE

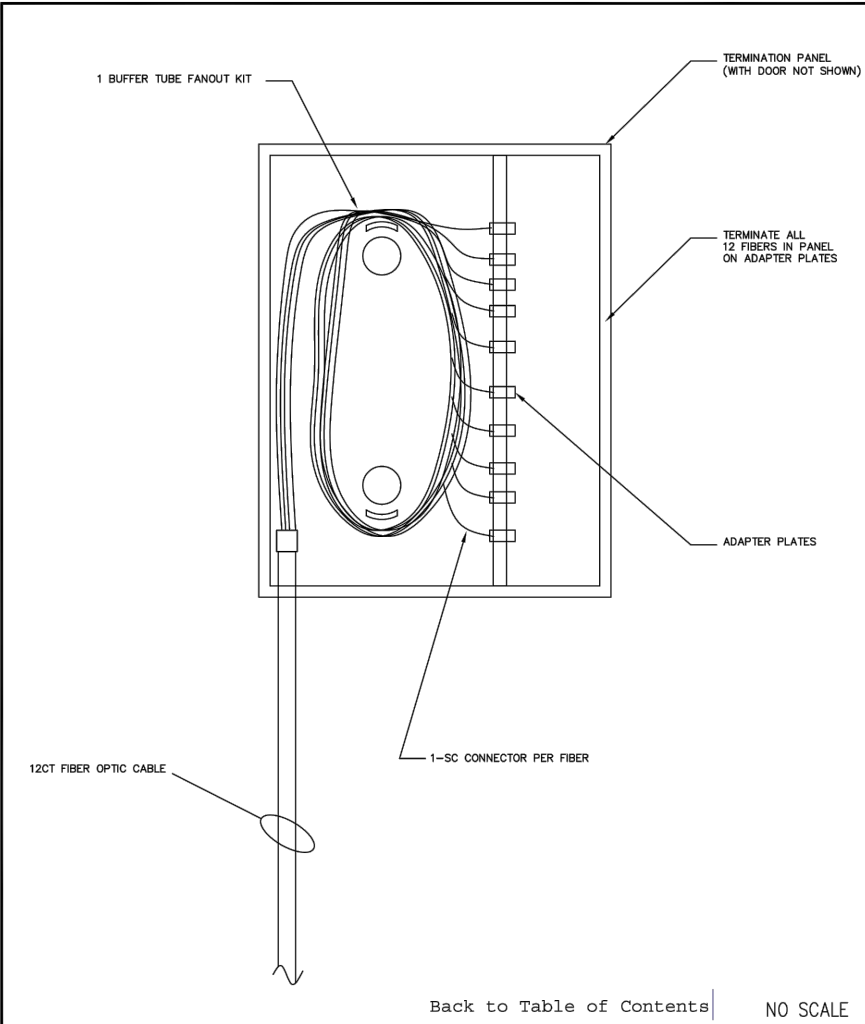


**CABINET FOUNDATION  
DETAILS**

NOTE: THE ORIGINAL IS SIGNED BY THE ENGINEER, APPROVED FOR PUBLICATION AND FILED AT THE CITY OF ISSAQUAH PUBLIC WORKS ENGINEERING OFFICE.

STANDARD  
DETAIL NO.  
TS-11

REV:



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**FIBER TERMINATION PANEL  
IN CONTROLLER CABINET**

NOTE: THE ORIGINAL IS SIGNED BY THE ENGINEER, APPROVED FOR PUBLICATION AND FILED AT THE CITY OF ISSAQUAH PUBLIC WORKS ENGINEERING OFFICE.

STANDARD  
DETAIL NO.  
TS-10

REV:

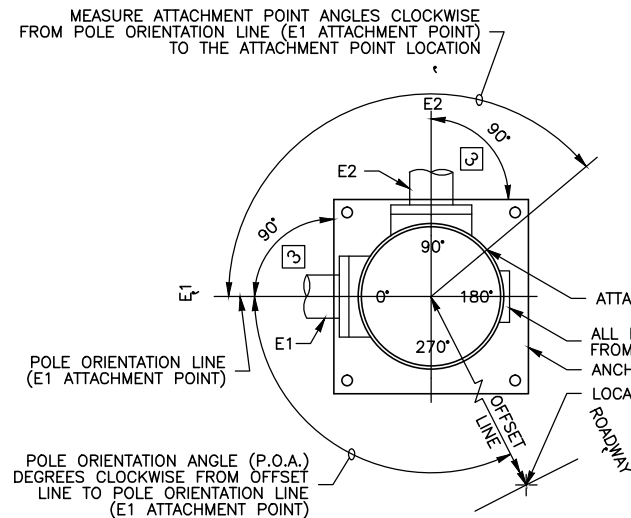


PRELIMINARY  
NOT FOR  
CONSTRUCTION

DATE APPD  
REVISION  
No.



**CITY OF ISSAQUAH**  
KING COUNTY  
**EAST LAKE SAMMAMISH PARKWAY SE IMPROVEMENTS**  
SIGNAL STANDARD



### POLE ORIENTATION AND ATTACHMENT POINT DETAIL

#### NOTE:

TYPE E MOUNTS SHALL BE USED FOR PEDESTRIAN DISPLAYS ON TYPE II OR III SIGNAL STANDARDS, WITH THE FOLLOWING EXCEPTIONS: PEDESTRIAN DISPLAYS MOUNTED ON OCTAGONAL (8 SIDED) SIGNAL STANDARDS AT AN ANGLE OTHER THAN A 45° INCREMENT SHALL USE A TYPE A MOUNT FOR TWO PEDESTRIAN DISPLAYS, OR A TYPE B MOUNT FOR SINGLE PEDESTRIAN DISPLAY.

#### LEGEND

- a. VEHICLE DISPLAY
- b. MAST ARM MOUNTED SIGN
- c. STREET NAME SIGN
- d. PRE-EMPT DETECTOR
- e. POST MOUNTED SIGN
- f. LUMINAIRE
- g. PEDESTRIAN DISPLAY
- h. CABINET
- i. PPB-M
- j. HANDHOLE

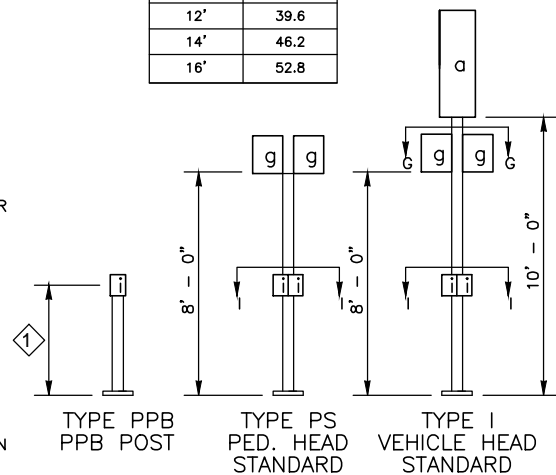
### SIGNAL STANDARD IDENTIFICATION TAG DETAIL EXAMPLE

STD. NO. XX	SIGNAL STANDARD NO.	STD. NO. 02
SRXXX, MP XXX.XX	STATE ROUTE AND MILE POST NO.	SR97, MP 069.09
MANUFACTURER APPROVED DWG. XXXXXX	APPROVED DRAWING NO.	MANUFACTURER APPROVED DWG. AB12345
FAB. X/XX/XXXX	FABRICATION DATE	FAB. 6/14/2002

NOTE:  
CORROSION RESISTANT METAL TAG SECURED WITH (2) 0.125" RIVETS AS FOLLOWS:

POLE SHAFT - LOCATED WITHIN 6" ABOVE HAND HOLE (TYPE II & III). SIGNAL AND LUMINAIRE MAST ARM (TYPE II & III) - LOCATED WITHIN 6" OF THE LUMINAIRE ARM AND THE POLE SHAFT CONNECTION POINT (TYPE III). TEXT SHALL BE A MINIMUM OF 3/16" HIGH, STAMPED OR EMBOSSED.

LUMINAIRE MAST ARM X Y Z (ft)	
MAST ARM LENGTH	X Y Z (ft)
6'	19.8
8'	26.4
10'	33.0
12'	39.6
14'	46.2
16'	52.8



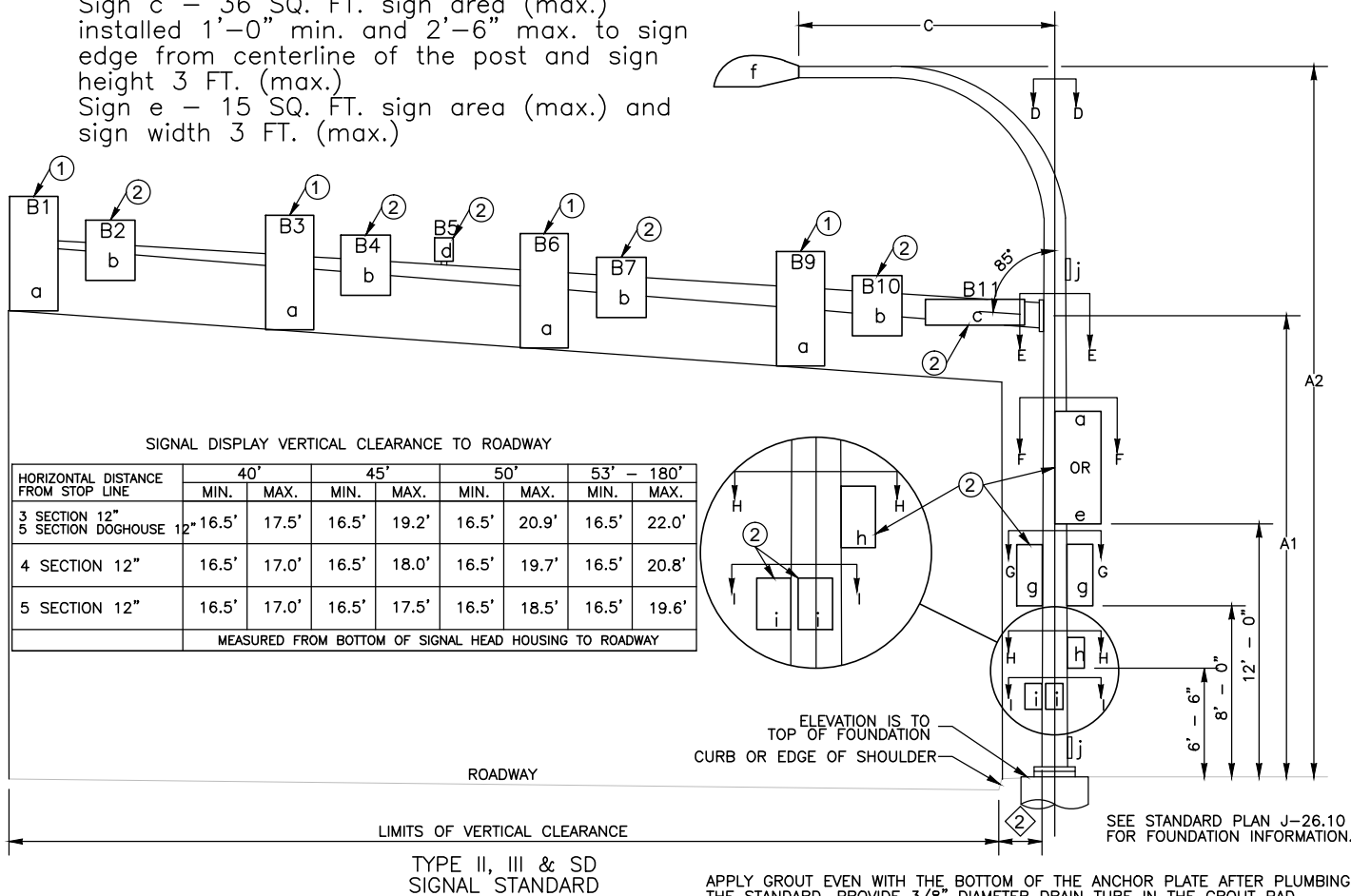
- ① HEIGHT OF PEDESTRIAN PUSH BUTTON: 42"
- ② PLACEMENT SHALL BE:  
2' - 0" MIN. FROM FACE OF CURB OR EDGE OF SHOULDER;  
3' - 0" MIN. FROM FACE OF GUARDRAIL;  
4' - 0" MIN. FROM CONC. BARRIER TYPE 2 (MEASURED FROM A POINT WHERE THE BARRIER BASE MEETS THE SHOULDER SURFACE (TOE). MEASUREMENT TAKEN FROM TRAFFIC SIDE OF BARRIER; TO FACE OF POLE
- ③ DMS OR VMS IS NOT ALLOWED ON THIS POLE.
- ④ FOR POST MOUNTED SIGNS THERE SHALL BE 2' - 0" MIN. FROM THE FACE OF THE CURB OR THE EDGE OF THE SHOULDER TO THE EDGE OF THE SIGN

#### NOTES

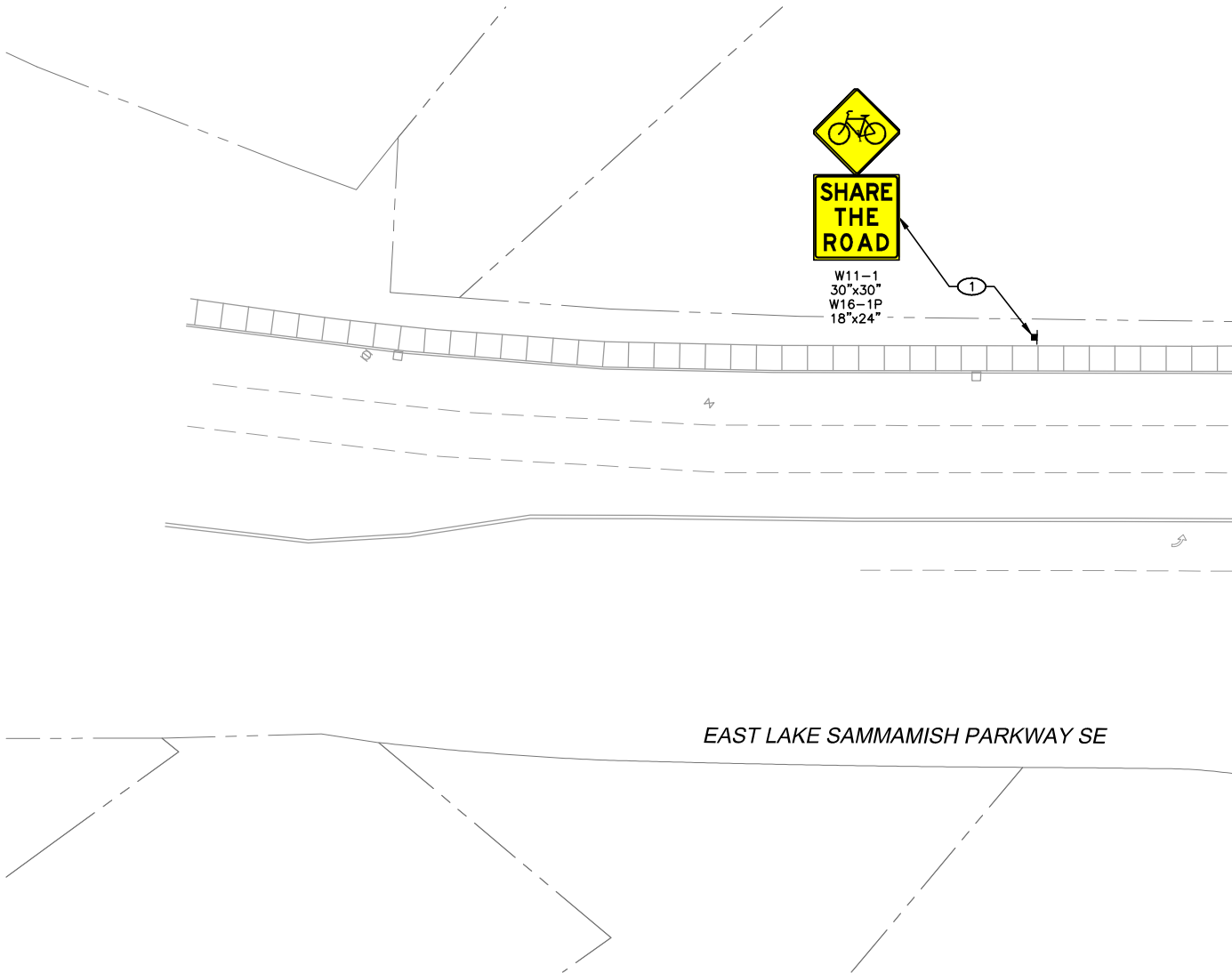
- ① Mounting Coupling installed at offset distance indicated in chart.
- ② Field installed.  
Sign b - 7.5 SQ. FT. sign area (max.) and sign height 3 FT. (max.)  
Sign c - 36 SQ. FT. sign area (max.) installed 1'-0" min. and 2'-6" max. to sign edge from centerline of the post and sign height 3 FT. (max.)  
Sign e - 15 SQ. FT. sign area (max.) and sign width 3 FT. (max.)

ALTERNATE NOTE 1 FOR TYPE N MOUNT ONLY.

- ① Drill 1" diam. hole in mast arm and install plastic split bushing for cable entrance.



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#### GENERAL

1. ALL SIGN TYPES, COLORS, AND DIMENSIONS ARE STANDARD PER THE MUTCD, UNLESS OTHERWISE INDICATED.
2. STREET NAME SIGNS SHALL MEET CITY STANDARD SIZE, DIMENSION, COLOR, ETC.

#### CHANNELIZATION NOTES:

1. CONTRACTOR SHALL REMOVE EXISTING PAVEMENT MARKINGS/ PRM'S/ OTHER CHANNELIZATION MARKINGS. COORDINATE WORK WITH THE ENGINEER.
2. CONTRACTOR SHALL FURNISH AND INSTALL WHITE WIDE LANE LINE PER CITY OF ISSAQUAH STANDARD DETAIL T-19.
3. CONTRACTOR SHALL FURNISH AND INSTALL WHITE BROKEN LINE PER CITY OF ISSAQUAH STANDARD DETAIL T-19.
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8. CONTRACTOR SHALL FURNISH AND INSTALL BICYCLE LANE SYMBOLS PER CITY OF ISSAQUAH STANDARD DETAIL T-27.
9. CONTRACTOR SHALL FURNISH AND INSTALL SHARROW BICYCLE LANE SYMBOLS PER CITY OF ISSAQUAH STANDARD DETAIL T-28.
10. CONTRACTOR SHALL FURNISH AND INSTALL STOP BAR AND CROSSWALK STRIPES PER CITY OF ISSAQUAH STANDARD DETAIL T-36.
11. CONTRACTOR SHALL FURNISH AND INSTALL TYPE A CURBING PER CITY OF ISSAQUAH STANDARD DETAIL T-39.
12. CONTRACTOR SHALL FURNISH AND INSTALL VERTICAL CONCRETE CURB PER CITY OF ISSAQUAH STANDARD DETAIL T-38.

#### SIGNING NOTES:

1. CONTRACTOR SHALL FURNISH AND INSTALL NEW SIGN AND POST PER CITY OF ISSAQUAH STANDARD DETAIL T-44.
2. CONTRACTOR SHALL REMOVE AND WASTE HAUL EXISTING SIGN POST AND FOUNDATION AND DELIVER SIGN TO CITY OF ISSAQUAH PUBLIC WORKS DEPARTMENT.

0 1" 2"  
TWO INCHES AT FULL SCALE.  
IF NOT, SCALE ACCORDINGLY



DATE: JAN. 2014  
SCALE: H: 1"=20'  
DRAWN: B.J.B.  
CHECKED: C.B.W.  
APPROVED: B.L.S.

No.	REVISION	DATE	APPD
	PRELIMINARY NOT FOR CONSTRUCTION		



CITY OF ISSAQUAH  
KING COUNTY  
EAST LAKE SAMMAMISH PARKWAY SE  
IMPROVEMENTS  
CHANNELIZATION & SIGNING  
DETAILS

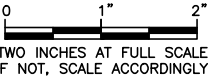
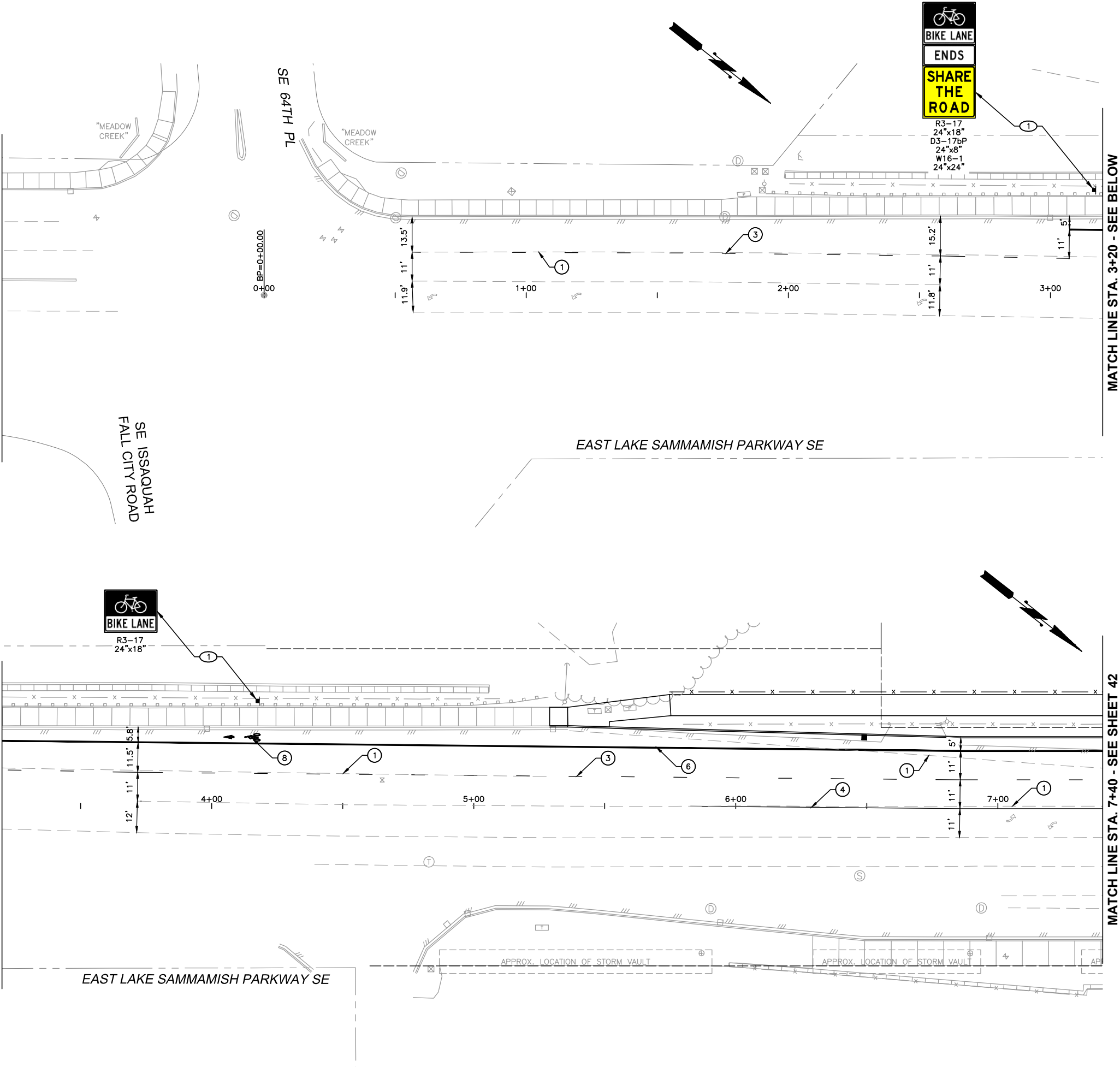
SHEET: 40  
OF: XX

JOB NO.: 13570  
DWG: CHANNELIZATION

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MATCH LINE - SEE SHEET 40

MATCH LINE STA. 3+20 - SEE ABOVE



#### GENERAL

1. ALL SIGN TYPES, COLORS, AND DIMENSIONS ARE STANDARD PER THE MUTCD, UNLESS OTHERWISE INDICATED.
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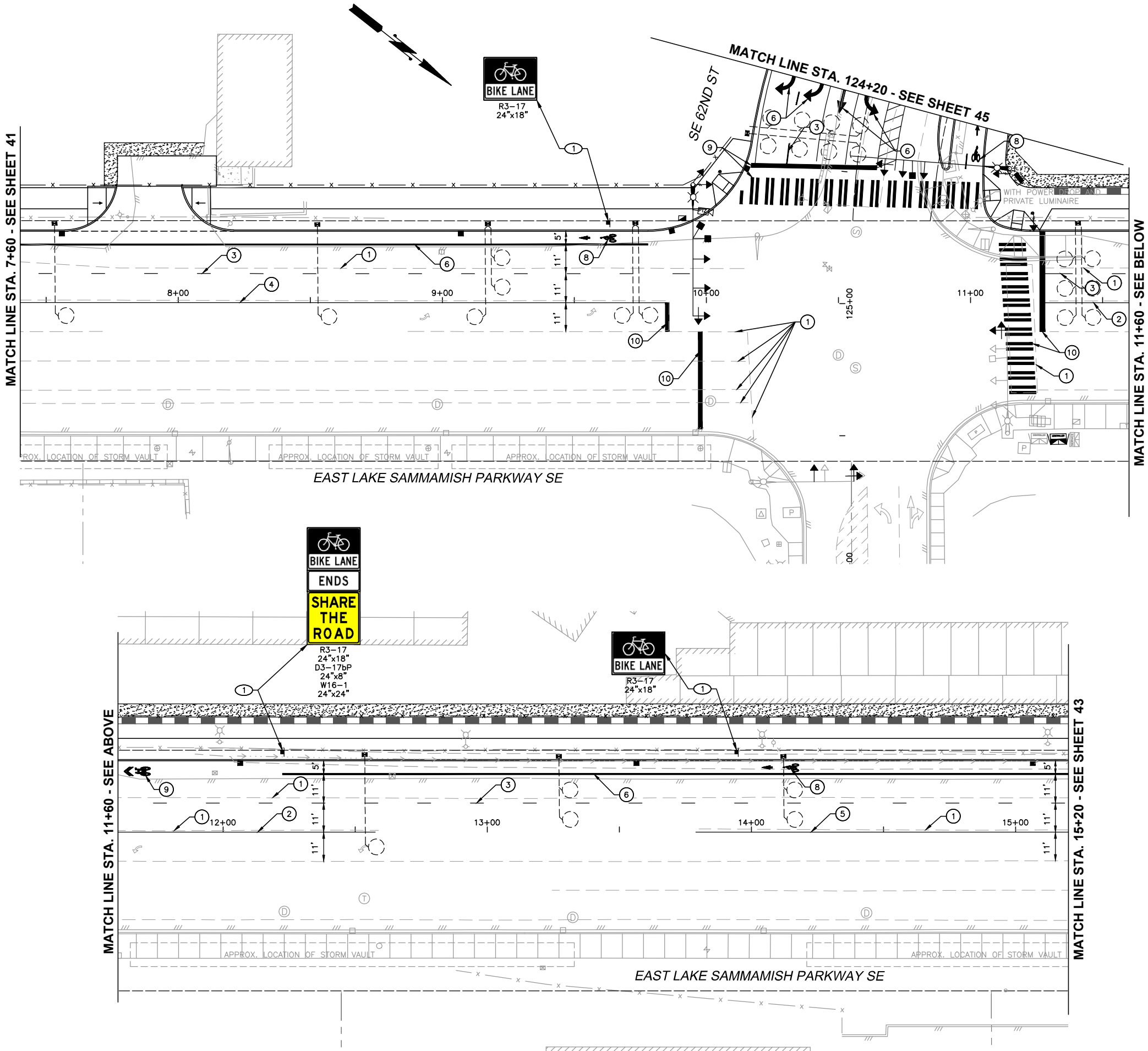


**CITY OF ISSAQUAH**  
KING COUNTY  
**EAST LAKE SAMMAMISH PARKWAY SE  
IMPROVEMENTS**  
CHANNELIZATION AND  
SIGNING PLAN

SHEET: **41**  
OF: **XX**

JOB NO.: 13570  
DWG: CHANNELIZATION

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**GENERAL**

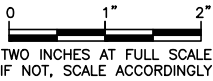
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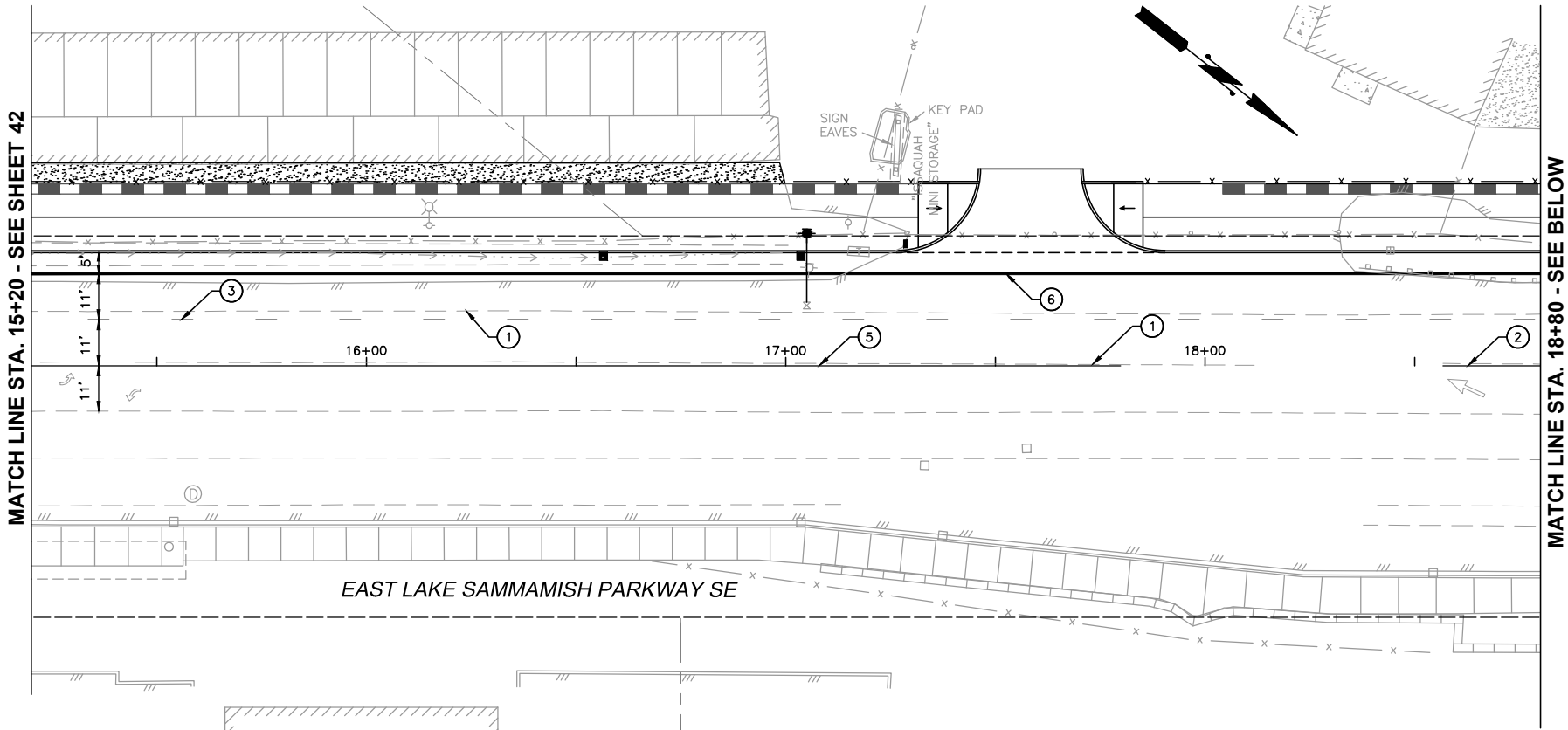


No.	REVISION	DATE	APPD
	PRELIMINARY NOT FOR CONSTRUCTION		





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**GENERAL**

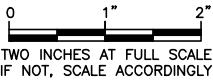
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**CHANNELIZATION NOTES:**

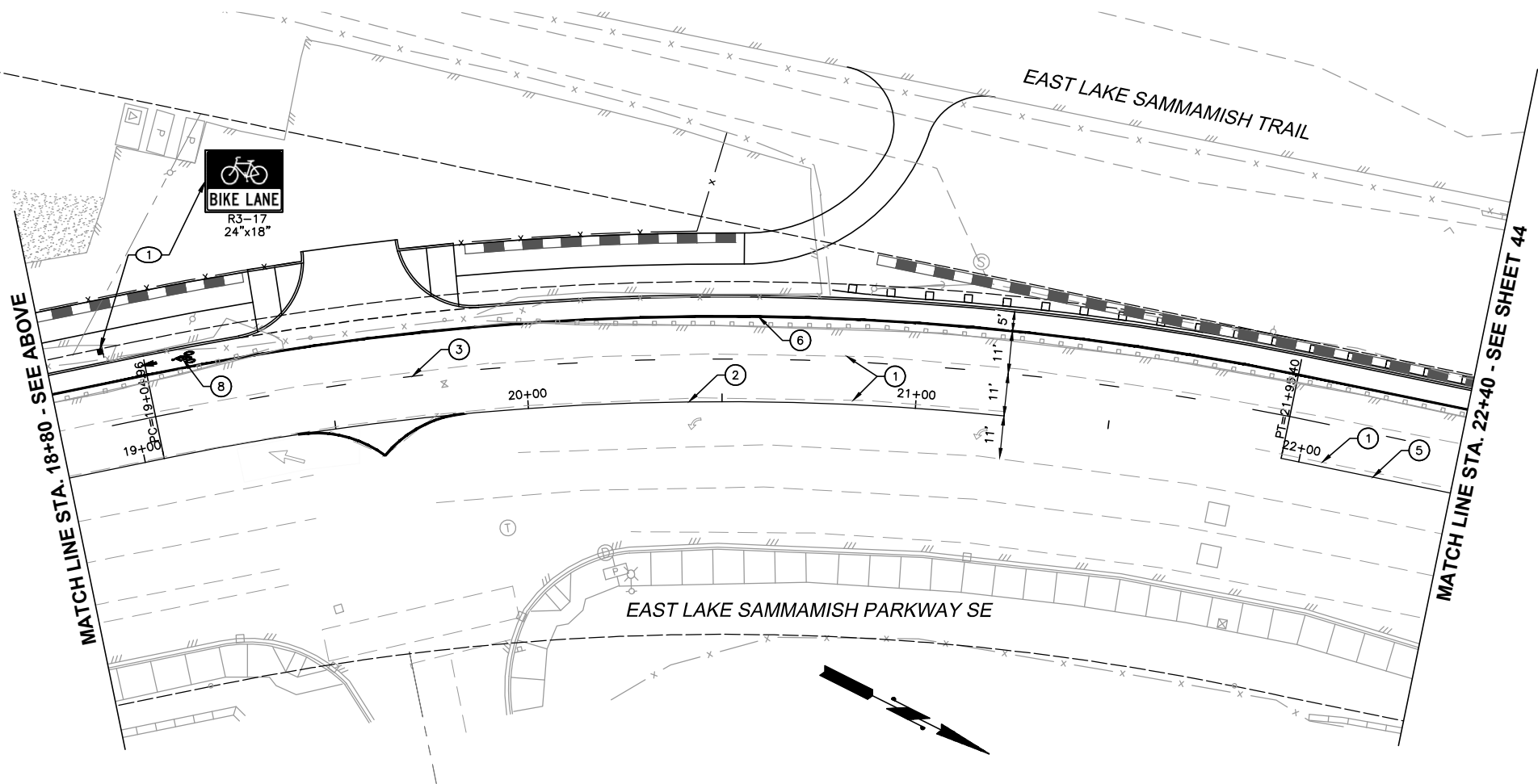
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9. CONTRACTOR SHALL FURNISH AND INSTALL SHARROW BICYCLE LANE SYMBOLS PER CITY OF ISSAQUAH STANDARD DETAIL T-28.
10. CONTRACTOR SHALL FURNISH AND INSTALL STOP BAR AND CROSSWALK STRIPES PER CITY OF ISSAQUAH STANDARD DETAIL T-36.
11. CONTRACTOR SHALL FURNISH AND INSTALL TYPE A CURBING PER CITY OF ISSAQUAH STANDARD DETAIL T-39.
12. CONTRACTOR SHALL FURNISH AND INSTALL VERTICAL CONCRETE CURB PER CITY OF ISSAQUAH STANDARD DETAIL T-38.

**SIGNING NOTES:**

1. CONTRACTOR SHALL FURNISH AND INSTALL NEW SIGN AND POST PER CITY OF ISSAQUAH STANDARD DETAIL T-44.
2. CONTRACTOR SHALL REMOVE AND WASTE HAUL EXISTING SIGN POST AND FOUNDATION AND DELIVER SIGN TO CITY OF ISSAQUAH PUBLIC WORKS DEPARTMENT.



TWO INCHES AT FULL SCALE.  
IF NOT, SCALE ACCORDINGLY



**Gray & Osborne, Inc.**  
CONSULTING ENGINEERS  
701 DEVER AVENUE NORTH, SUITE 200  
SEATTLE, WASHINGTON 98109 • (206) 264-0860

DATE: JAN. 2014  
SCALE: H: 1"=20'  
DRAWN: B.J.B.  
CHECKED: C.B.W.  
APPROVED: B.L.S.

No.	REVISION	DATE	APPD

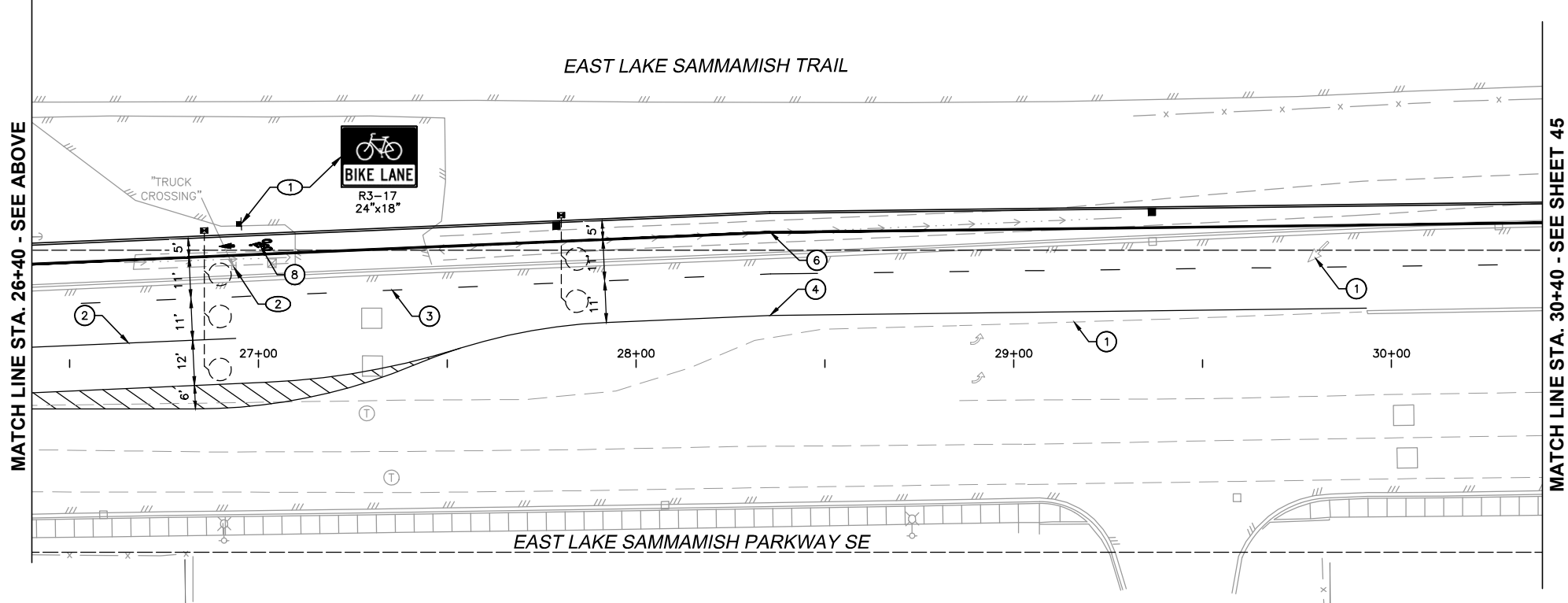
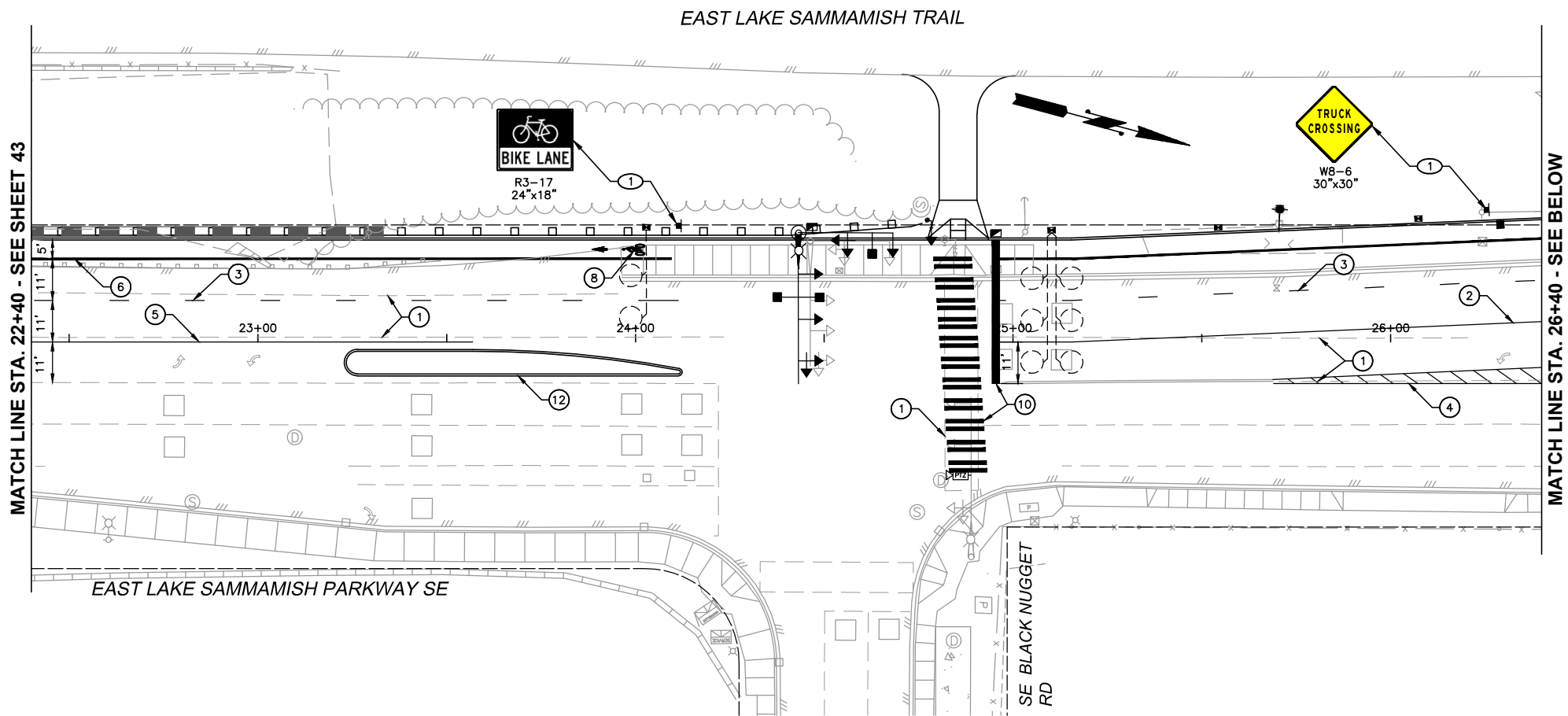


**CITY OF ISSAQUAH**  
KING COUNTY  
**EAST LAKE SAMMAMISH PARKWAY SE  
IMPROVEMENTS**  
CHANNELIZATION AND  
SIGNING PLAN

SHEET: **43**  
OF: **XX**

JOB NO.: 13570  
DWG: CHANNELIZATION

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#### GENERAL

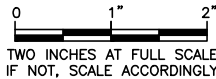
1. ALL SIGN TYPES, COLORS, AND DIMENSIONS ARE STANDARD PER THE MUTCD, UNLESS OTHERWISE INDICATED.
2. STREET NAME SIGNS SHALL MEET CITY STANDARD SIZE, DIMENSION, COLOR, ETC.

#### CHANNELIZATION NOTES:

1. CONTRACTOR SHALL REMOVE EXISTING PAVEMENT MARKINGS/PRM'S/ OTHER CHANNELIZATION MARKINGS. COORDINATE WORK WITH THE ENGINEER.
2. CONTRACTOR SHALL FURNISH AND INSTALL WHITE WIDE LANE LINE PER CITY OF ISSAQUAH STANDARD DETAIL T-19.
3. CONTRACTOR SHALL FURNISH AND INSTALL WHITE BROKEN LINE PER CITY OF ISSAQUAH STANDARD DETAIL T-19.
4. CONTRACTOR SHALL FURNISH AND INSTALL YELLOW DOUBLE LINE PER CITY OF ISSAQUAH STANDARD DETAIL T-19.
5. CONTRACTOR SHALL FURNISH AND INSTALL TWO-WAY LEFT TURN LINE PER CITY OF ISSAQUAH STANDARD DETAIL T-19.
6. CONTRACTOR SHALL FURNISH AND INSTALL 6" WHITE METHYL METHACRYLATE FOG LINE PER CITY OF ISSAQUAH STANDARD DETAIL T-23.
7. CONTRACTOR SHALL INSTALL WHITE PAVEMENT ARROW(S) PER CITY OF ISSAQUAH STANDARD DETAIL T-35.
8. CONTRACTOR SHALL FURNISH AND INSTALL BICYCLE LANE SYMBOLS PER CITY OF ISSAQUAH STANDARD DETAIL T-27.
9. CONTRACTOR SHALL FURNISH AND INSTALL SHARROW BICYCLE LANE SYMBOLS PER CITY OF ISSAQUAH STANDARD DETAIL T-28.
10. CONTRACTOR SHALL FURNISH AND INSTALL STOP BAR AND CROSSWALK STRIPES PER CITY OF ISSAQUAH STANDARD DETAIL T-36.
11. CONTRACTOR SHALL FURNISH AND INSTALL TYPE A CURBING PER CITY OF ISSAQUAH STANDARD DETAIL T-39.
12. CONTRACTOR SHALL FURNISH AND INSTALL VERTICAL CONCRETE CURB PER CITY OF ISSAQUAH STANDARD DETAIL T-38.

#### SIGNING NOTES:

1. CONTRACTOR SHALL FURNISH AND INSTALL NEW SIGN AND POST PER CITY OF ISSAQUAH STANDARD DETAIL T-44.
2. CONTRACTOR SHALL REMOVE AND WASTE HAUL EXISTING SIGN POST AND FOUNDATION AND DELIVER SIGN TO CITY OF ISSAQUAH PUBLIC WORKS DEPARTMENT.

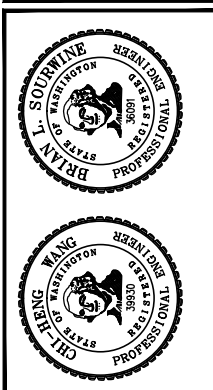


TWO INCHES AT FULL SCALE.  
IF NOT, SCALE ACCORDINGLY

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CONSULTING ENGINEERS  
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SEATTLE, WASHINGTON 98109 • (206) 264-0860

DATE: JAN. 2014	SCALE: H: 1"=20'	DRAWN: B.J.B.	CHECKED: C.B.W.	APPROVED: B.L.S.
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No.	REVISION	DATE	APPD
PRELIMINARY NOT FOR CONSTRUCTION			



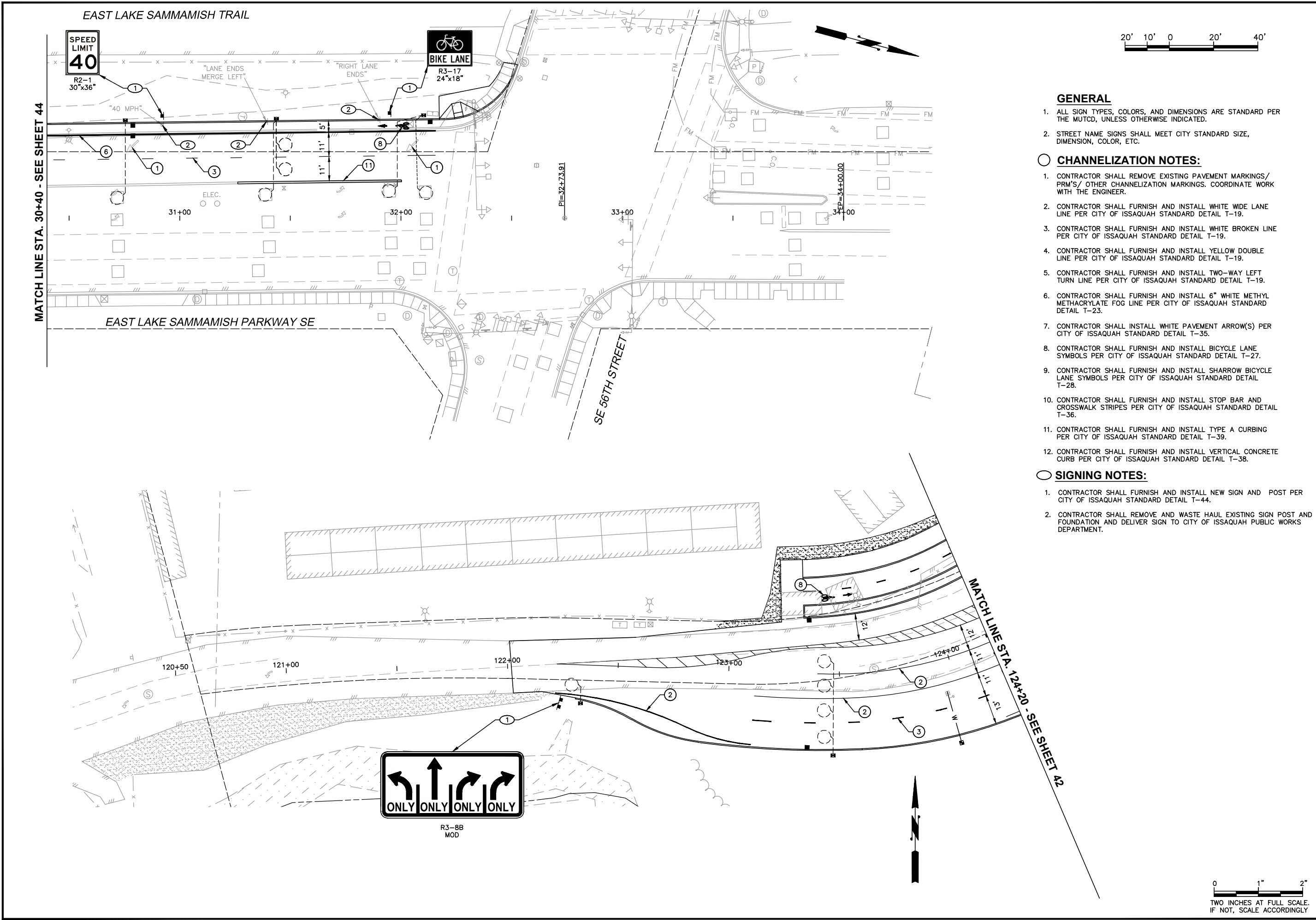
**CITY OF ISSAQUAH**  
KING COUNTY  
WASHINGTON

**EAST LAKE SAMMAMISH PARKWAY SE  
IMPROVEMENTS**

CHANNELIZATION AND  
SIGNING PLAN

SHEET: 44
OF: XX
JOB NO.: 13570
DWG: CHANNELIZATION

L:\ISSAQUAH\13570 E. Lake Sammamish Pkwy\01 Design\Plan\CHANELIZATION.dwg, 1/22/2014 3:42:37 PM, bboilen



#### GENERAL


1. ALL SIGN TYPES, COLORS, AND DIMENSIONS ARE STANDARD PER THE MUTCD, UNLESS OTHERWISE INDICATED.
2. STREET NAME SIGNS SHALL MEET CITY STANDARD SIZE, DIMENSION, COLOR, ETC.

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11. CONTRACTOR SHALL FURNISH AND INSTALL TYPE A CURBING PER CITY OF ISSAQUAH STANDARD DETAIL T-39.
12. CONTRACTOR SHALL FURNISH AND INSTALL VERTICAL CONCRETE CURB PER CITY OF ISSAQUAH STANDARD DETAIL T-38.



#### SIGNING NOTES:

1. CONTRACTOR SHALL FURNISH AND INSTALL NEW SIGN AND POST PER CITY OF ISSAQUAH STANDARD DETAIL T-44.
2. CONTRACTOR SHALL REMOVE AND WASTE HAUL EXISTING SIGN POST AND FOUNDATION AND DELIVER SIGN TO CITY OF ISSAQUAH PUBLIC WORKS DEPARTMENT.



**Gray & Osborne, Inc.**  
CONSULTING ENGINEERS  
701 DEVER AVENUE NORTH, SUITE 200  
SEATTLE, WASHINGTON 98109 • (206) 264-0860

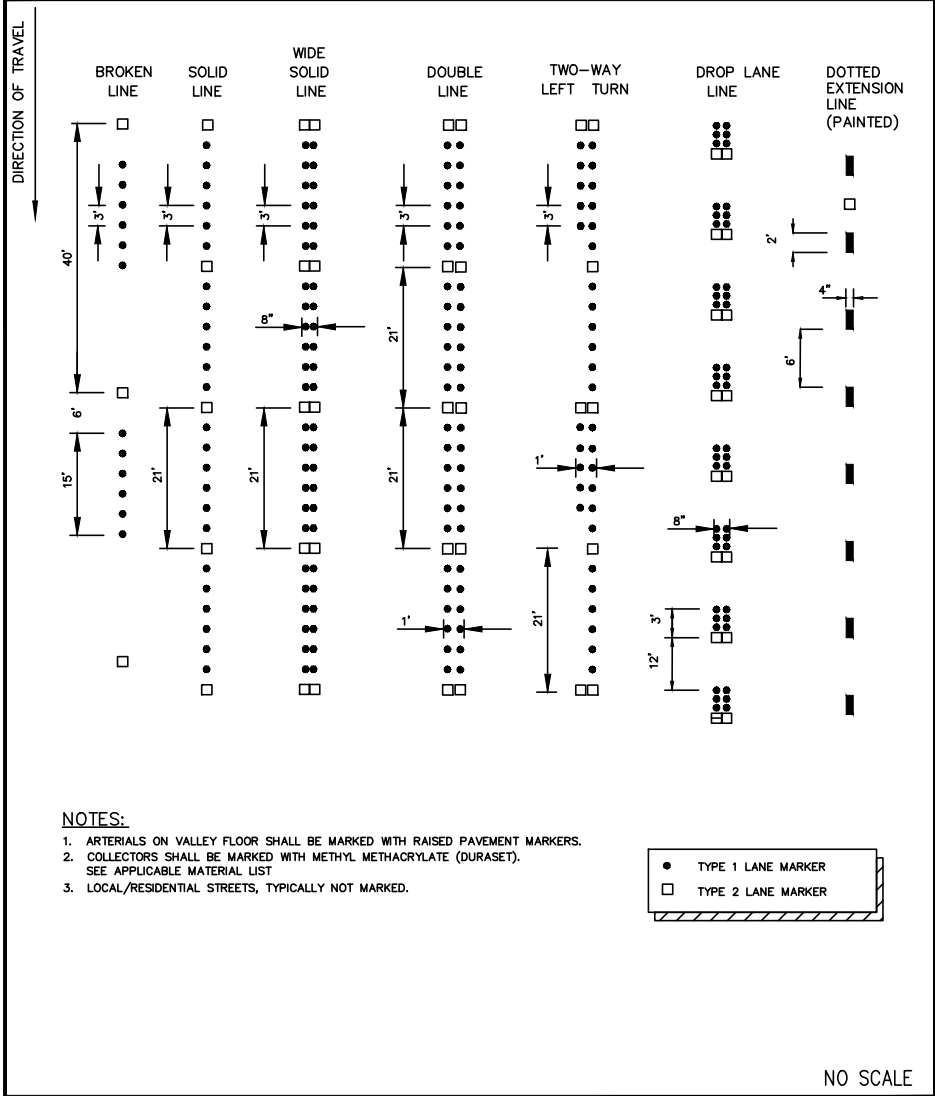
DATE: JAN. 2014	SCALE: H: 1"=20'	DRAWN: B.J.B.	CHECKED: C.B.W.	APPROVED: B.L.S.
PRELIMINARY NOT FOR CONSTRUCTION				DATE
REVISION				APPD
No.				



**CITY OF ISSAQUAH**  
KING COUNTY  
**EAST LAKE SAMMAMISH PARKWAY SE  
IMPROVEMENTS**  
CHANNELIZATION AND SIGNING PLAN

SHEET: <b>45</b>
OF: <b>XX</b>
JOB NO.: 13570
DWG: CHANNELIZATION

L:\ISSAQUAH\13570 E. Lake Sammamish Pkwy\01 Design\PlanSet\CHAN\_DET1.dwg, 1/22/2014 3:43:36 PM, bbollen



CITY OF ISSAQUAH  
PUBLIC WORKS DEPARTMENT

AUGUST 2010

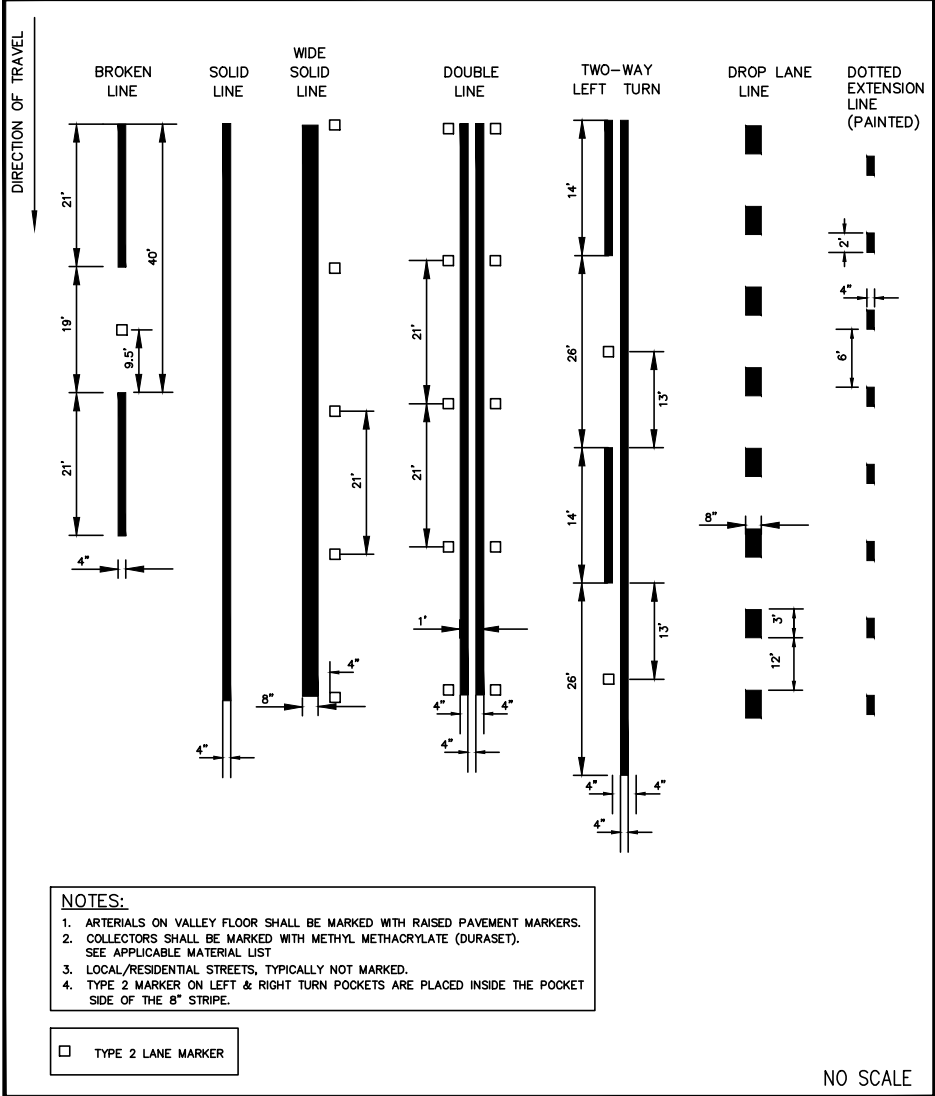
SEAL

EXPRES: 12-13-2011

CHANNELIZATION - RAISED PAVEMENT MARKERS

STANDARD  
DETAIL NO.  
T-18

REV:



CITY OF ISSAQUAH  
PUBLIC WORKS DEPARTMENT

AUGUST 2010

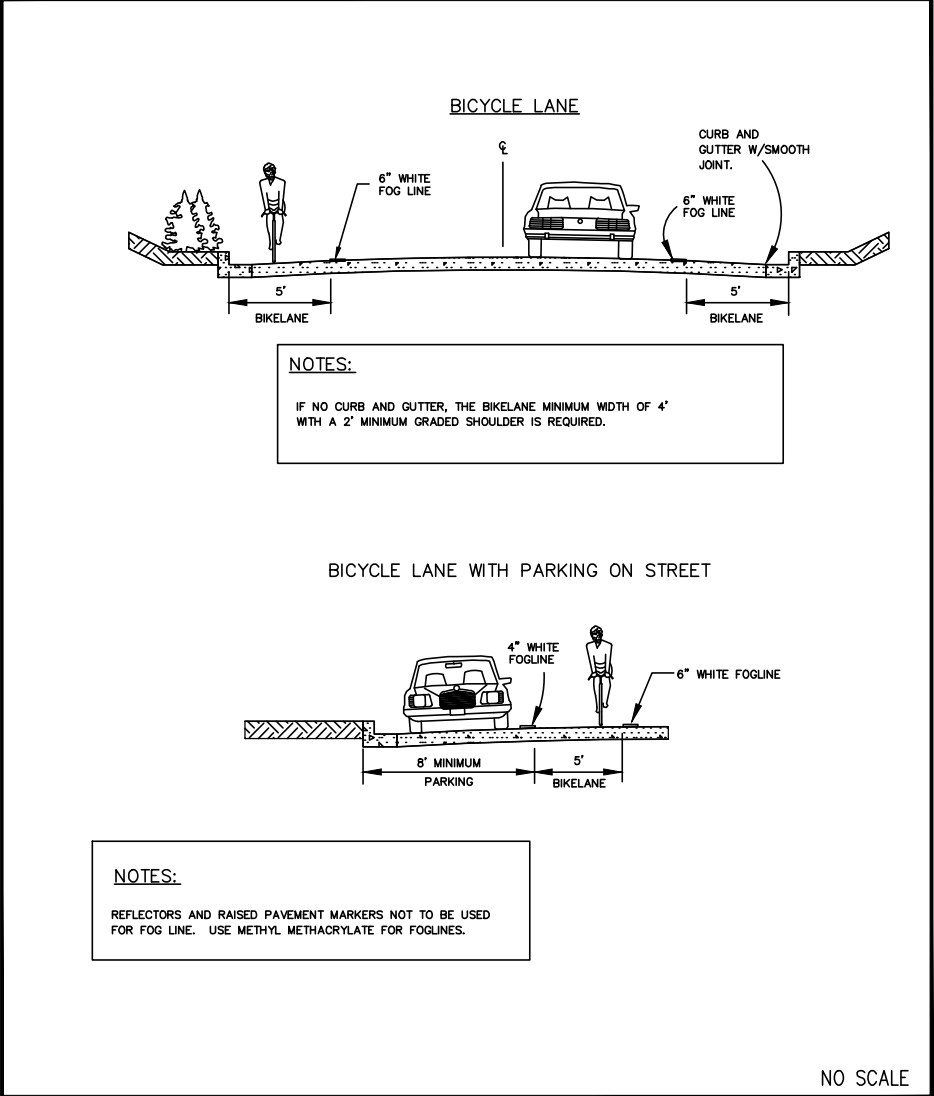
SEAL

EXPRES: 12-13-2011

CHANNELIZATION - METHYL METHACRYLATE MARKINGS

STANDARD  
DETAIL NO.  
T-19

REV:



CITY OF ISSAQUAH  
PUBLIC WORKS DEPARTMENT

AUGUST 2010

SEAL

EXPRES: 12-13-2011

BICYCLE LANES AND ON STREET PARKING

STANDARD  
DETAIL NO.  
T-23

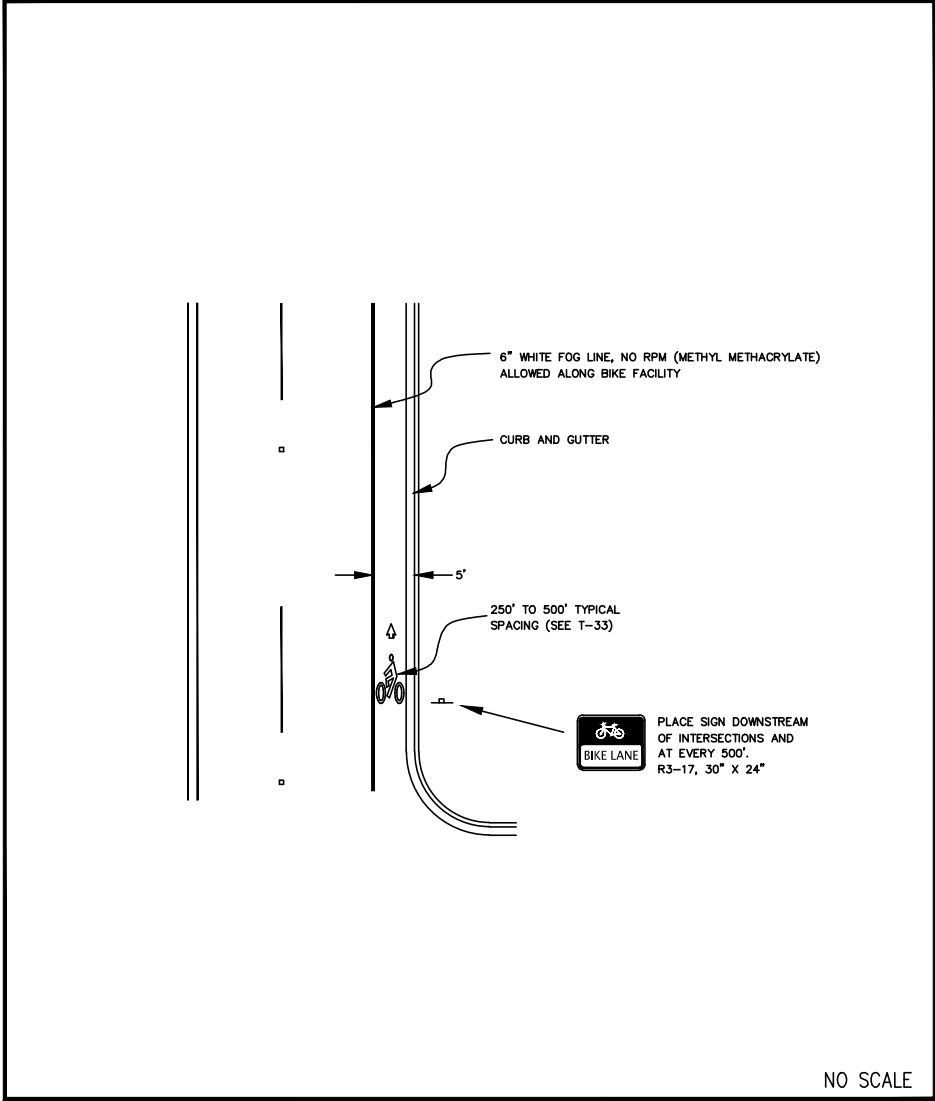
REV:




DATE: JAN. 2014	SCALE:	DRAWN:	CHECKED: C.B.W.	APPROVED: B.L.S.
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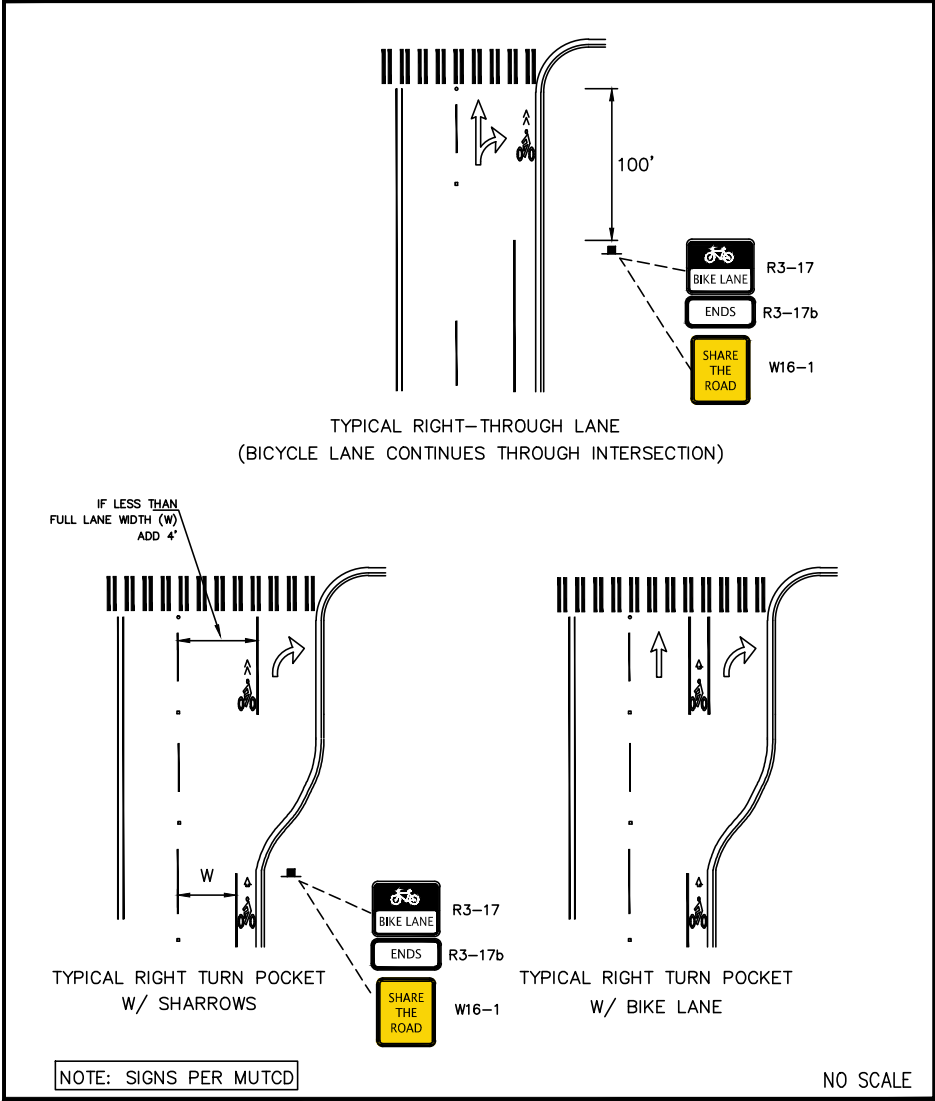
PRELIMINARY NOT FOR CONSTRUCTION	DATE	APPD
	REVISION	No.



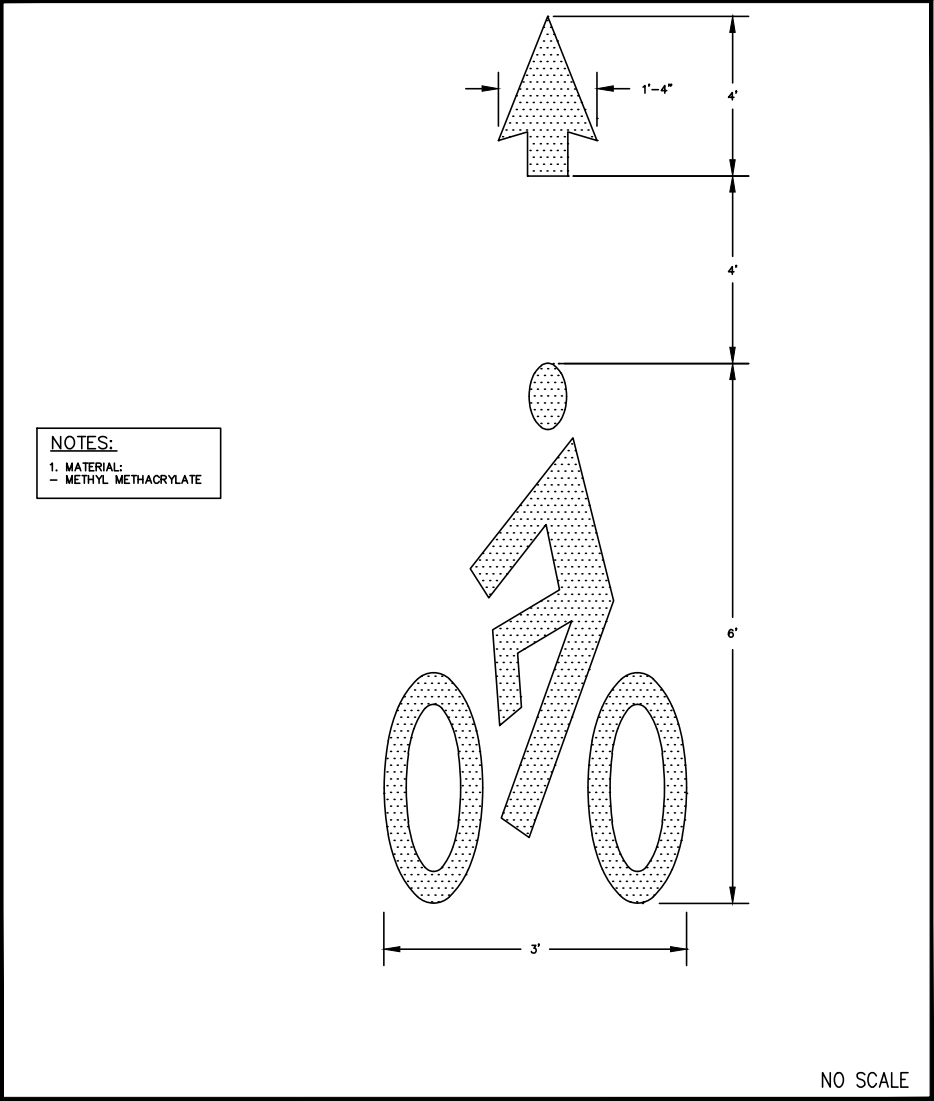
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 AUGUST 2010	 EXPRES: _____	 EXPRES: 12-13-2011	<b>TYPICAL BICYCLE LANE- WIDTH, SIGNING, AND MARKING</b>	<b>STANDARD DETAIL NO. T-24</b> REV: _____
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 AUGUST 2010	 EXPRES: _____	 EXPRES: 12-13-2011	<b>TYPICAL BICYCLE LANE MARKERS AT INTERSECTION</b>	<b>STANDARD DETAIL NO. T-25</b> REV: _____
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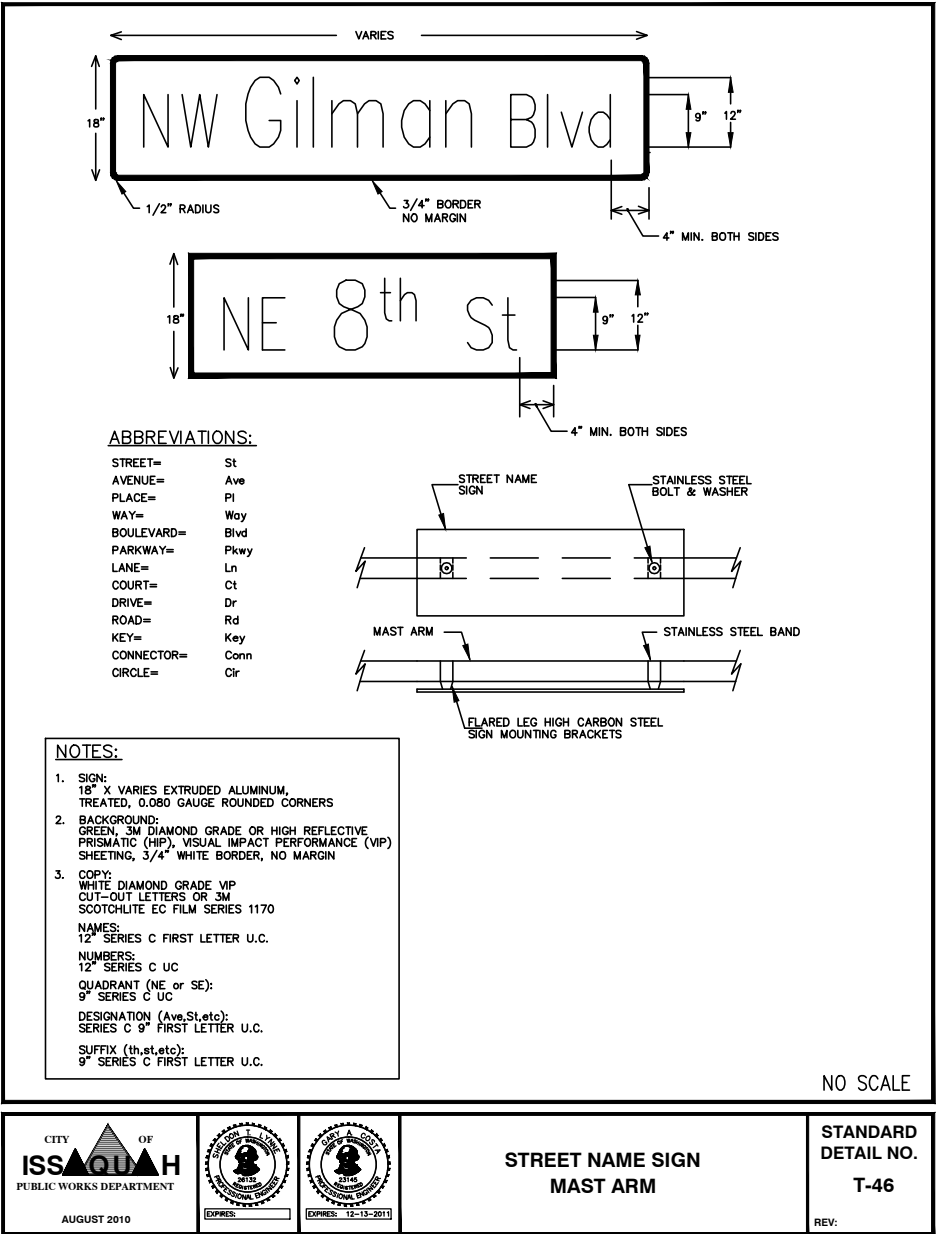
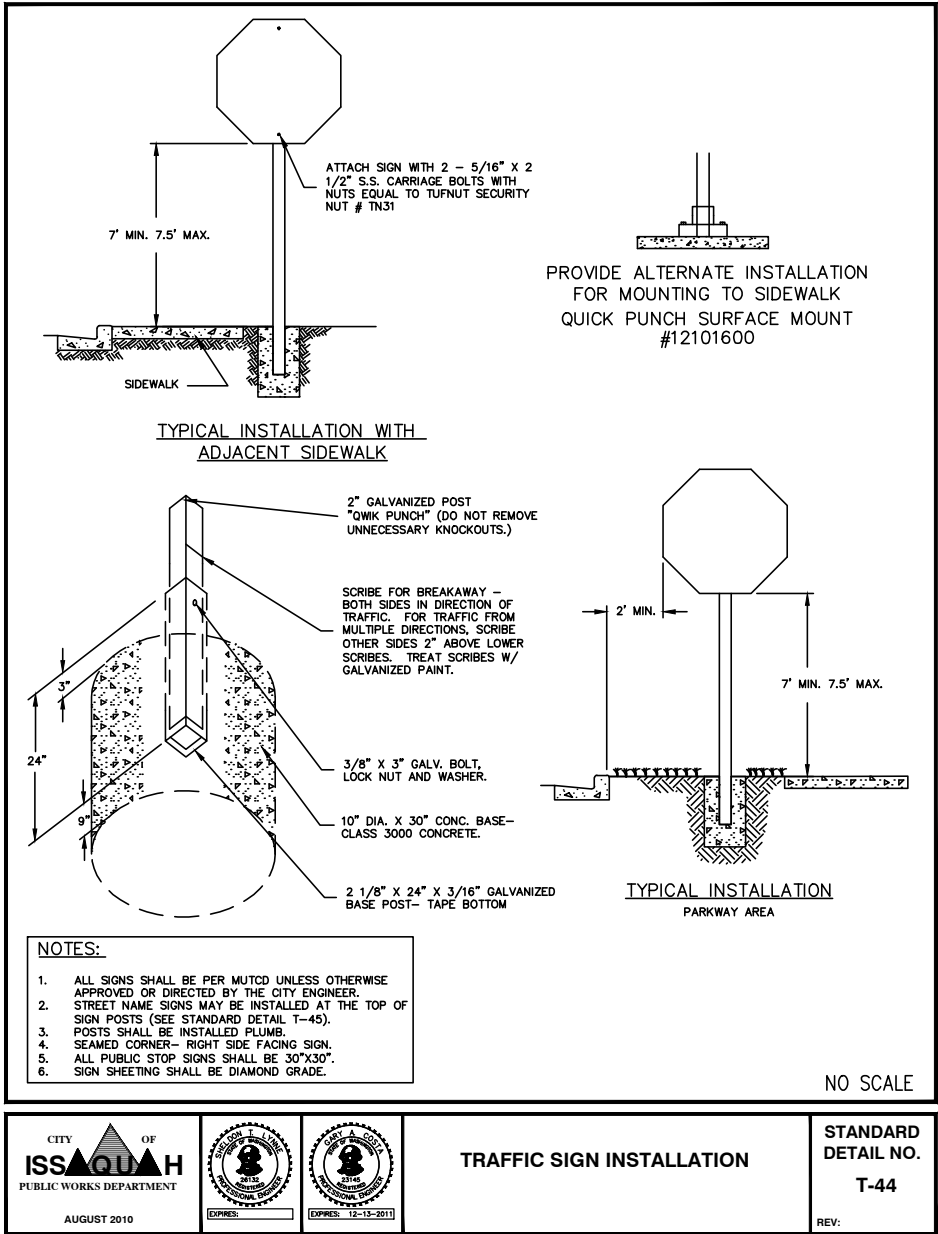
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 <b>Gray &amp; Osborne, Inc.</b> CONSULTING ENGINEERS 701 DEWEY AVENUE NORTH, SUITE 200 SEATTLE, WASHINGTON 98109 • (206) 284-0860	DATE: JAN. 2014 SCALE: DRAWN: CHECKED: C.B.W. APPROVED: B.L.S.
<b>PRELIMINARY NOT FOR CONSTRUCTION</b>	DATE APPD REVISION No.
 	
<b>CITY OF ISSAQUAH</b> KING COUNTY EAST LAKE SAMMAMISH PARKWAY SE IMPROVEMENTS CHANNELIZATION AND SIGNING DETAILS	
SHEET: <b>47</b> OF: <b>XX</b>	
JOB NO.: 13570 DWG: CHAN_DET2	





L:\ISSAQUAH\13570 E. Lake Sammamish Pkwy\01 Design\PlanSet\CHAN\_DET4.dwg, 1/22/2014 3:45:59 PM, bbollen



**Gray & Osborne, Inc.**  
CONSULTING ENGINEERS  
701 DECKER AVENUE NORTH, SUITE 200  
SEATTLE, WASHINGTON 98109 • (206) 264-0860

DATE: JAN. 2014  
SCALE:  
DRAWN:  
CHECKED: C.B.W.  
APPROVED: B.L.S.

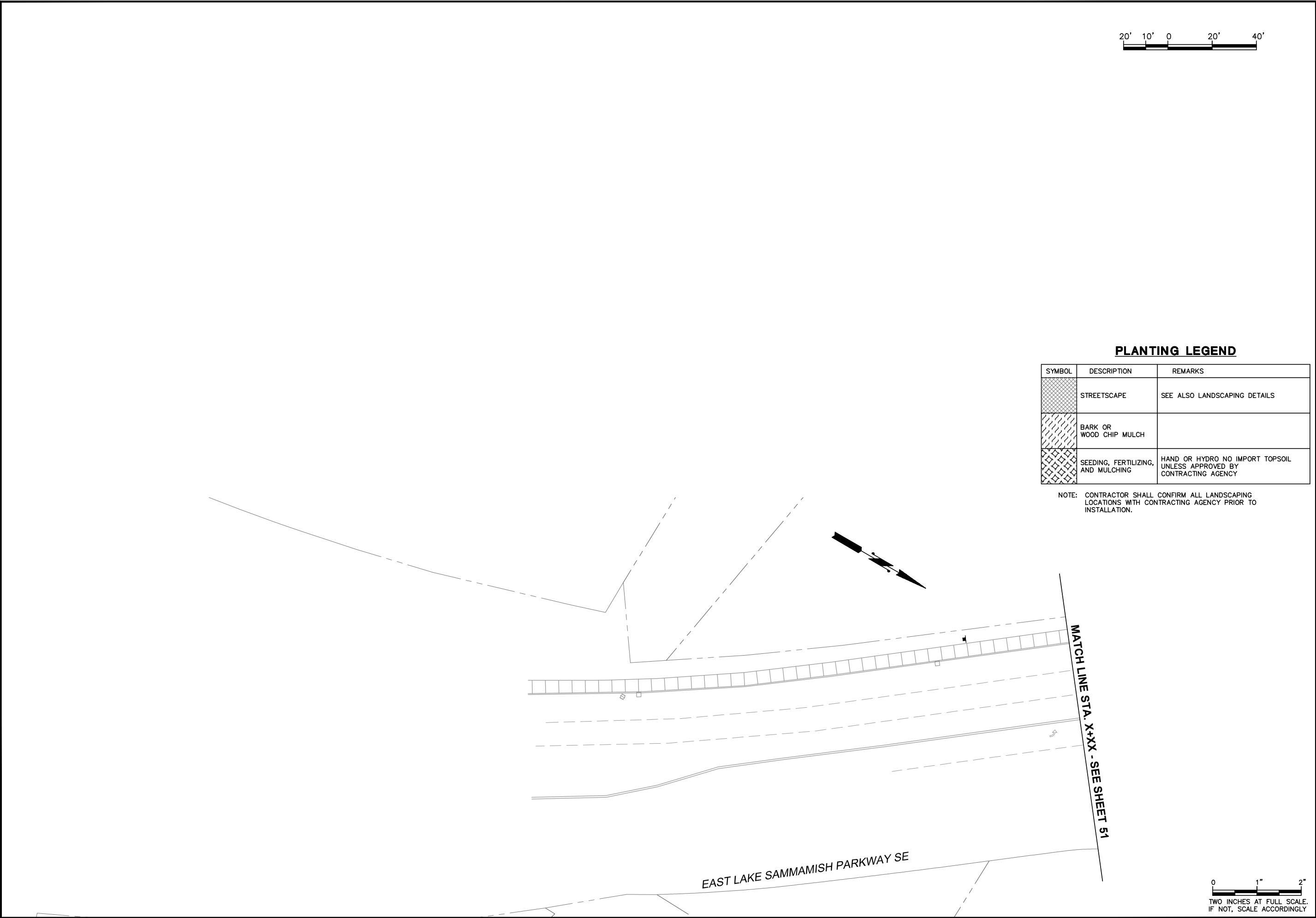
REVISION	DATE	APPD
PRELIMINARY NOT FOR CONSTRUCTION		



CITY OF ISSAQUAH  
KING COUNTY  
WASHINGTON  
EAST LAKE SAMMAMISH PARKWAY SE  
IMPROVEMENTS  
CHANNELIZATION AND SIGNING DETAILS

SHEET: 49  
OF: XX  
JOB NO.: 13570  
DWG: CHAN\_DET4

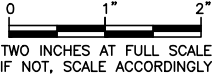
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PLANTING LEGEND

SYMBOL	DESCRIPTION	REMARKS
	STREETSCAPE	SEE ALSO LANDSCAPING DETAILS
	BARK OR WOOD CHIP MULCH	
	SEEDING, FERTILIZING, AND MULCHING	HAND OR HYDRO NO IMPORT TOPSOIL UNLESS APPROVED BY CONTRACTING AGENCY

NOTE: CONTRACTOR SHALL CONFIRM ALL LANDSCAPING LOCATIONS WITH CONTRACTING AGENCY PRIOR TO INSTALLATION.





**Gray & Osborne, Inc.**  
CONSULTING ENGINEERS  
701 DYER AVENUE NORTH, SUITE 200  
SEATTLE, WASHINGTON 98109 • (206) 264-0860

DATE: JAN. 2014	SCALE: H: 1"=20'	DRAWN: B.J.B.	CHECKED: C.B.W.	APPROVED: B.L.S.
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No.	REVISION	DATE	APPD
PRELIMINARY NOT FOR CONSTRUCTION			



CITY OF ISSAQUAH

KING COUNTY

EAST LAKE SAMMAMISH PARKWAY SE IMPROVEMENTS

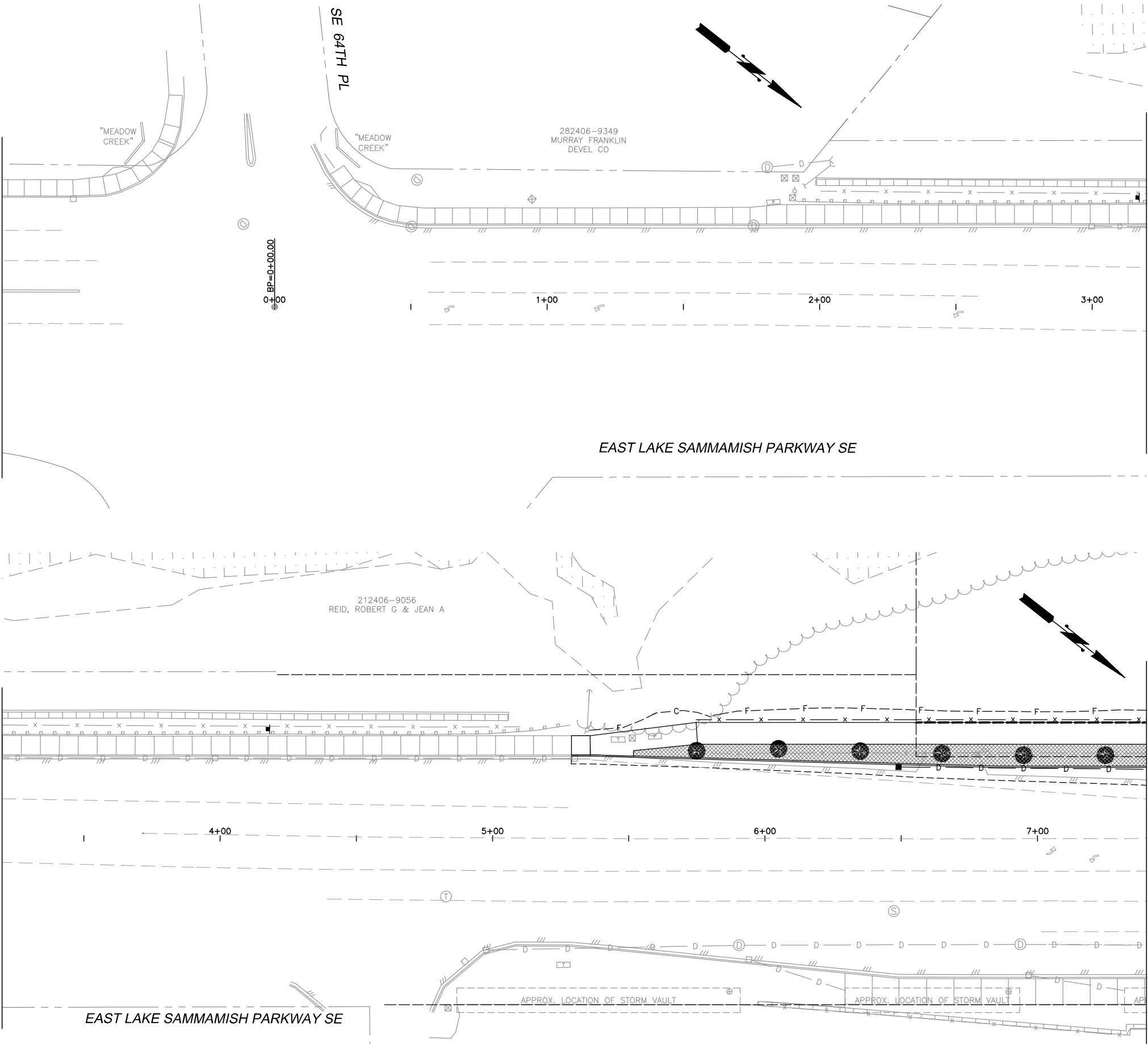
ROADSIDE PLANTING PLAN

SHEET: 50
OF: XX
JOB NO.: 13570
DWG: ST_SCAPE

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MATCH LINE STA. X+XX - SEE SHEET 50

MATCH LINE STA. 3+20 - SEE ABOVE



PLANTING LEGEND

SYMBOL	DESCRIPTION	REMARKS
	STREETSCAPE	SEE ALSO LANDSCAPING DETAILS
	BARK OR WOOD CHIP MULCH	
	SEEDING, FERTILIZING, AND MULCHING	HAND OR HYDRO NO IMPORT TOPSOIL UNLESS APPROVED BY CONTRACTING AGENCY

NOTE: CONTRACTOR SHALL CONFIRM ALL LANDSCAPING LOCATIONS WITH CONTRACTING AGENCY PRIOR TO INSTALLATION.

0 1" 2"  
TWO INCHES AT FULL SCALE.  
IF NOT, SCALE ACCORDINGLY

20' 10' 0 20' 40'



CITY OF ISSAQUAH  
KING COUNTY WASHINGTON  
EAST LAKE SAMMAMISH PARKWAY SE  
IMPROVEMENTS  
ROADSIDE PLANTING PLAN

SHEET: 51  
OF: XX

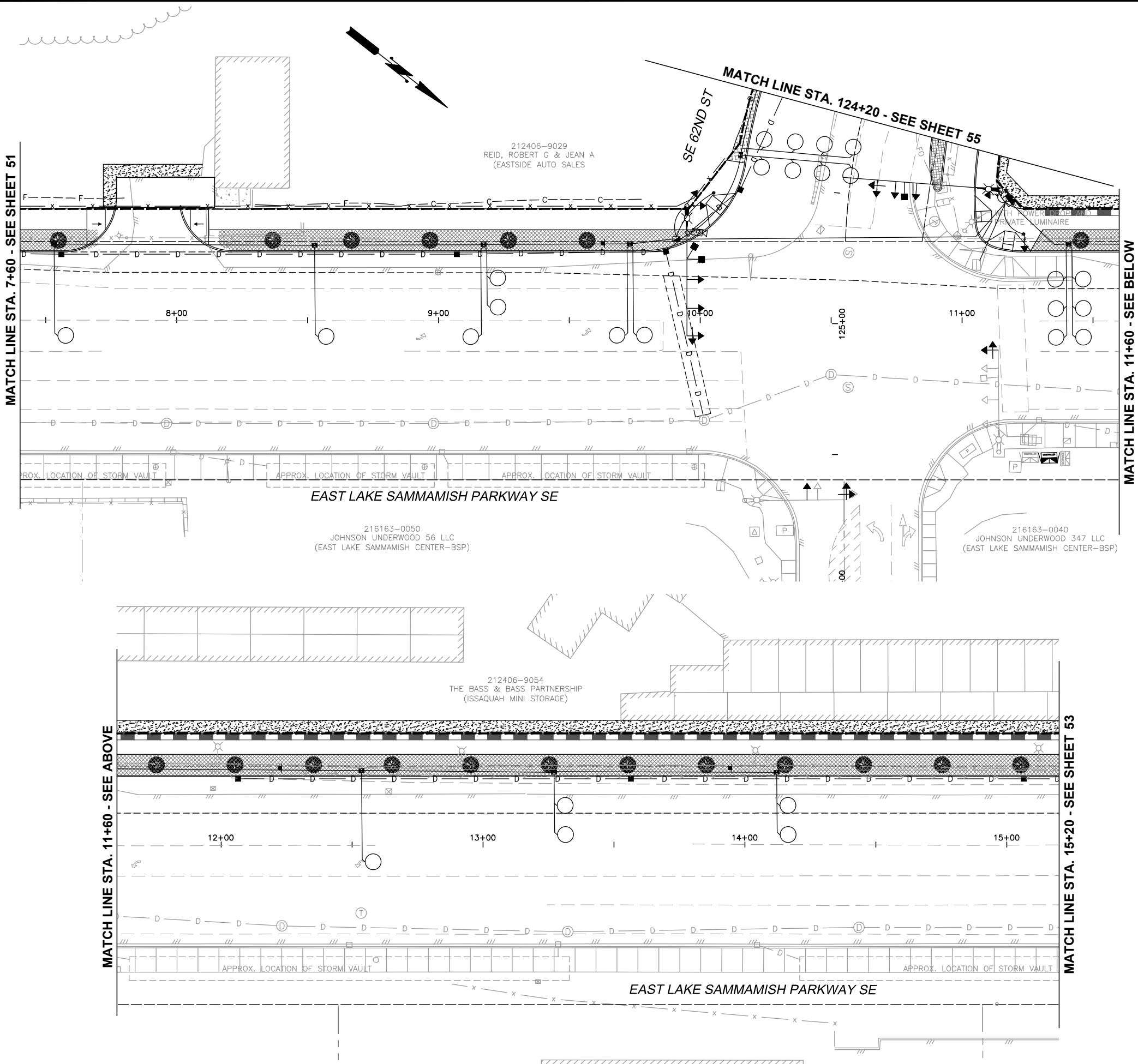
JOB NO.: 13570  
DWG: ST\_SCALE

DATE: JAN. 2014  
SCALE: H: 1"=20'  
DRAWN: B.J.B.  
CHECKED: C.B.W.  
APPROVED: B.L.S.

PRELIMINARY NOT FOR CONSTRUCTION	REVISION	DATE	APPD
No.			

**Gray & Osborne, Inc.**  
CONSULTING ENGINEERS  
701 DYER AVENUE NORTH, SUITE 200  
SEATTLE, WASHINGTON 98109 • (206) 264-0860

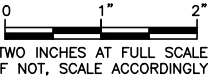
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PLANTING LEGEND

SYMBOL	DESCRIPTION	REMARKS
	STREETSCAPE	SEE ALSO LANDSCAPING DETAILS
	BARK OR WOOD CHIP MULCH	
	SEEDING, FERTILIZING, AND MULCHING	HAND OR HYDRO NO IMPORT TOPSOIL UNLESS APPROVED BY CONTRACTING AGENCY

NOTE: CONTRACTOR SHALL CONFIRM ALL LANDSCAPING LOCATIONS WITH CONTRACTING AGENCY PRIOR TO INSTALLATION.



TWO INCHES AT FULL SCALE.  
IF NOT, SCALE ACCORDINGLY

DATE: JAN. 2014	SCALE: H. 1"=20'	DRAWN: B.J.B.	CHECKED: C.B.W.	APPROVED: B.L.S.
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No.	REVISION	DATE	APPD
PRELIMINARY NOT FOR CONSTRUCTION			



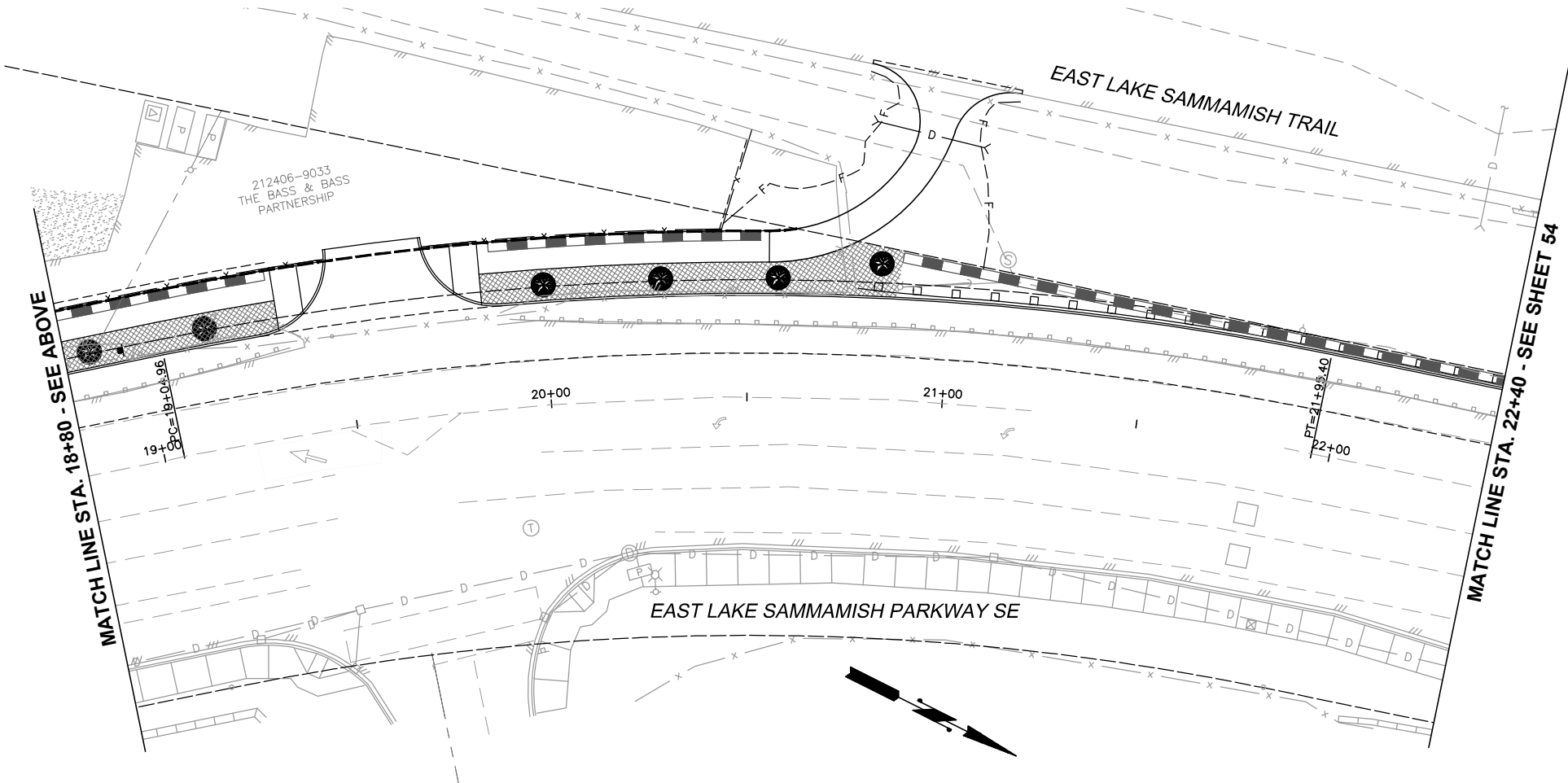
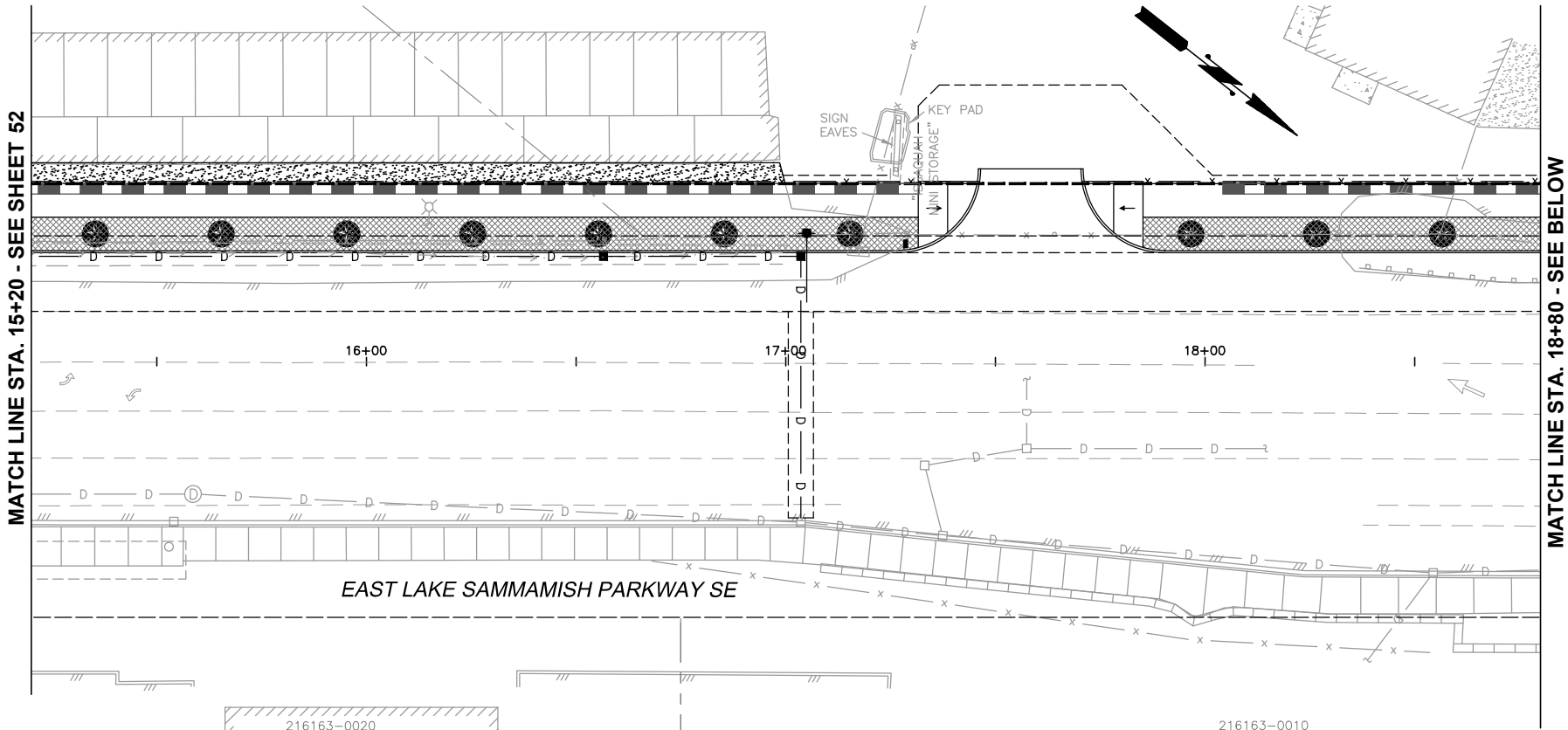
CITY OF ISSAQUAH  
KING COUNTY WASHINGTON  
EAST LAKE SAMMAMISH PARKWAY SE  
IMPROVEMENTS  
ROADSIDE PLANTING PLAN

SHEET: 52
OF: XX
JOB NO.: 13570
DWG: ST_SCAPE

**Gray & Osborne, Inc.**  
CONSULTING ENGINEERS  
701 DYER AVENUE NORTH, SUITE 200  
SEATTLE, WASHINGTON 98109 • (206) 264-0860



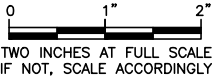
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PLANTING LEGEND

SYMBOL	DESCRIPTION	REMARKS
	STREETSCAPE	SEE ALSO LANDSCAPING DETAILS
	BARK OR WOOD CHIP MULCH	
	SEEDING, FERTILIZING, AND MULCHING	HAND OR HYDRO NO IMPORT TOPSOIL UNLESS APPROVED BY CONTRACTING AGENCY

NOTE: CONTRACTOR SHALL CONFIRM ALL LANDSCAPING LOCATIONS WITH CONTRACTING AGENCY PRIOR TO INSTALLATION.





**Gray & Osborne, Inc.**  
CONSULTING ENGINEERS  
701 DYER AVENUE NORTH SUITE 200  
SEATTLE, WASHINGTON 98109 • (206) 264-0860

DATE: JAN. 2014	SCALE: H: 1"=20'	DRAWN: B.J.B.	CHECKED: C.B.W.	APPROVED: B.L.S.
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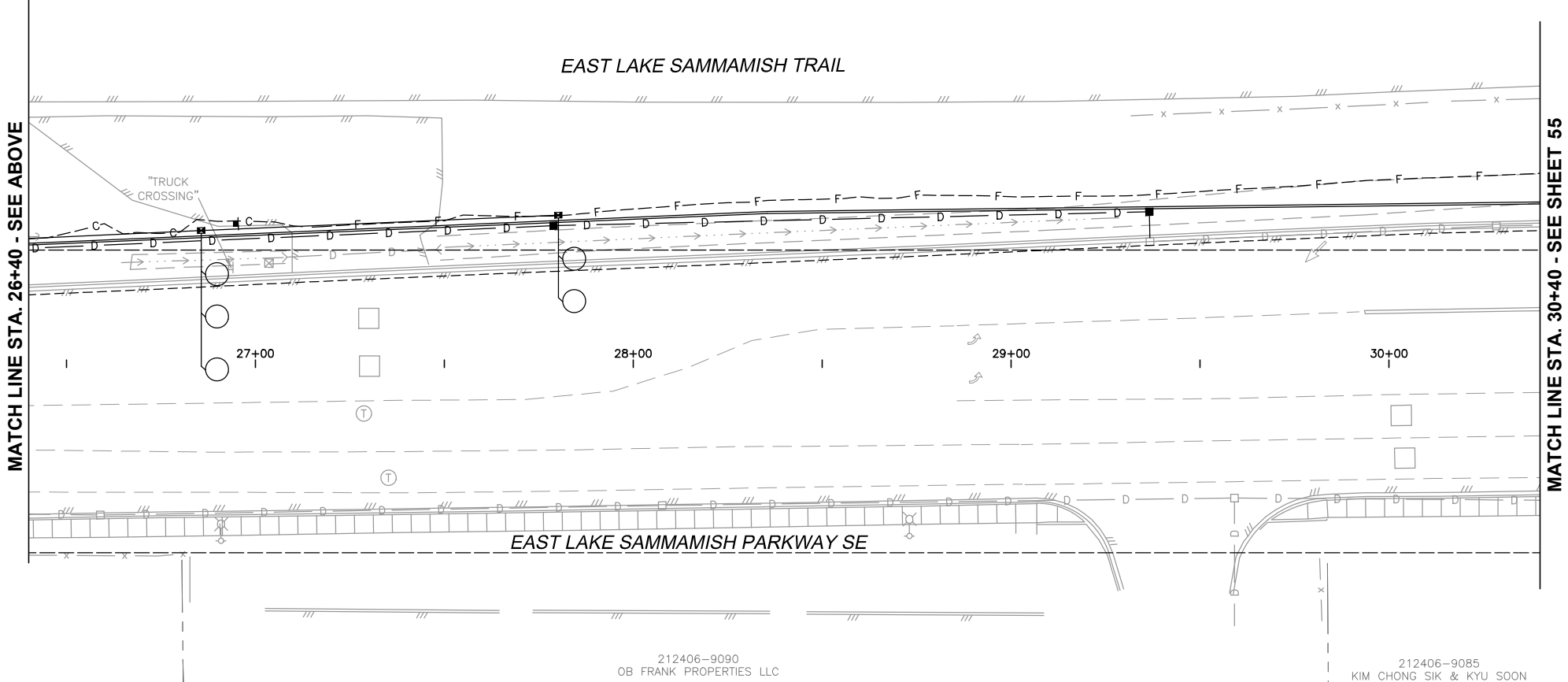
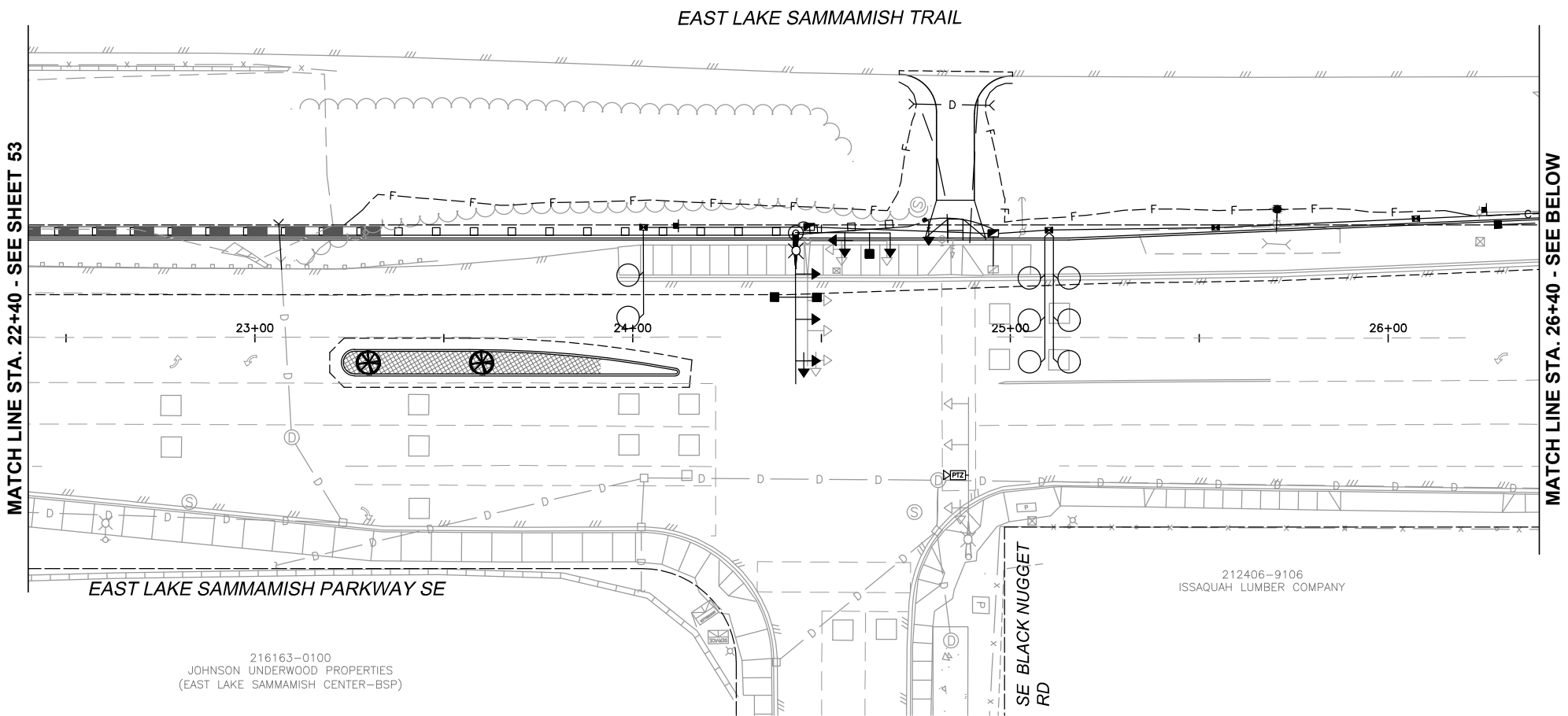
PRELIMINARY NOT FOR CONSTRUCTION	REVISION	DATE	APPD
	No.		



**CITY OF ISSAQUAH**  
KING COUNTY  
**EAST LAKE SAMMAMISH PARKWAY SE IMPROVEMENTS**  
ROADSIDE PLANTING PLAN

SHEET: <b>53</b>	JOB NO.: 13570
OF: <b>XX</b>	DWG: ST_SCAPE

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#### PLANTING LEGEND

SYMBOL	DESCRIPTION	REMARKS
	STREETSCAPE	SEE ALSO LANDSCAPING DETAILS
	BARK OR WOOD CHIP MULCH	
	SEEDING, FERTILIZING, AND MULCHING	HAND OR HYDRO NO IMPORT TOPSOIL UNLESS APPROVED BY CONTRACTING AGENCY

NOTE: CONTRACTOR SHALL CONFIRM ALL LANDSCAPING LOCATIONS WITH CONTRACTING AGENCY PRIOR TO INSTALLATION.

0 1" 2"  
TWO INCHES AT FULL SCALE.  
IF NOT, SCALE ACCORDINGLY

**Gray & Osborne, Inc.**  
CONSULTING ENGINEERS  
701 DYER AVENUE NORTH SUITE 200  
SEATTLE, WASHINGTON 98109 • (206) 264-0860

DATE: JAN. 2014  
SCALE: H: 1"=20'  
DRAWN: B.J.B.  
CHECKED: C.B.W.  
APPROVED: B.L.S.

No.	REVISION	DATE	APPD
	PRELIMINARY NOT FOR CONSTRUCTION		

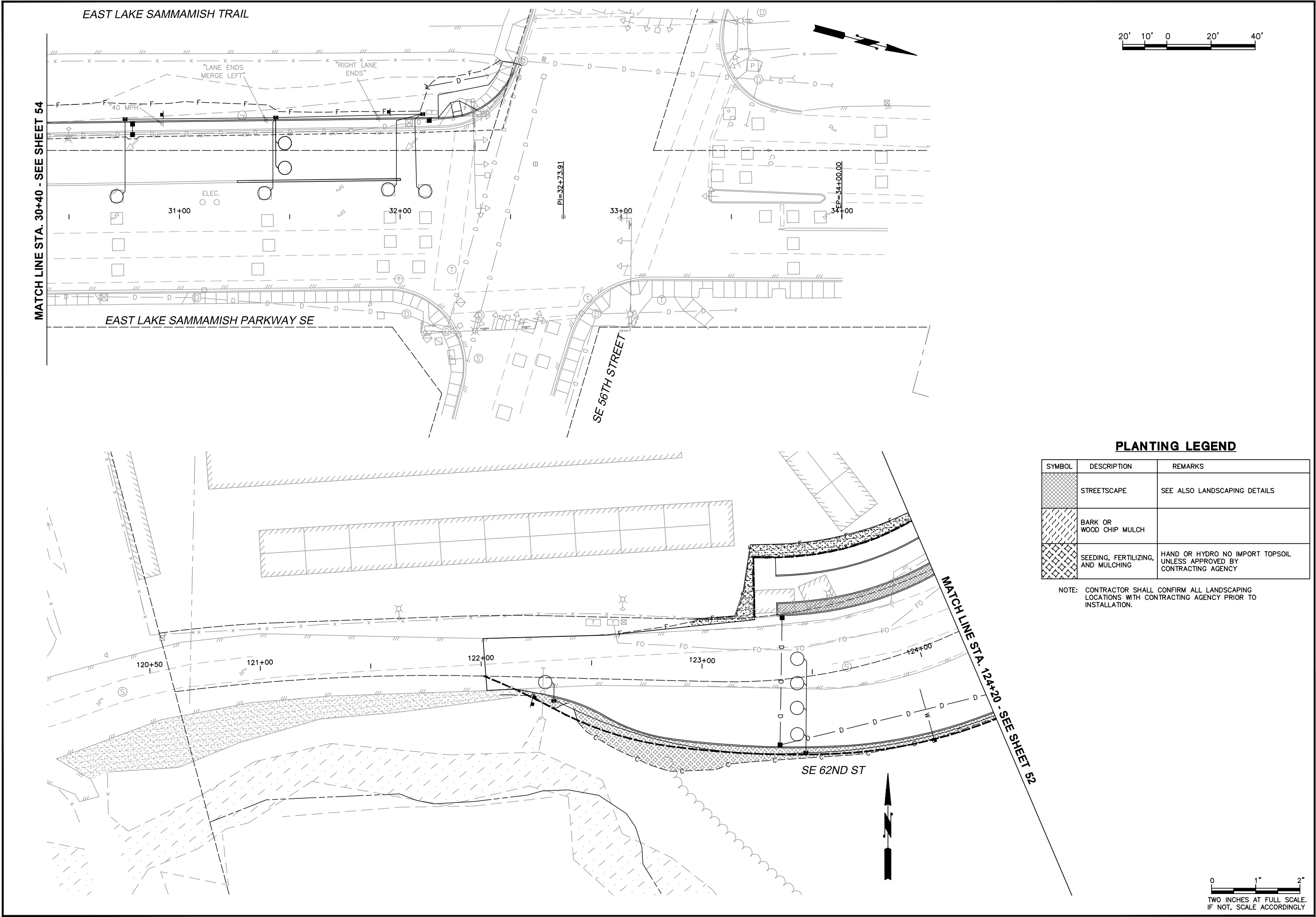


CITY OF ISSAQUAH  
KING COUNTY WASHINGTON  
EAST LAKE SAMMAMISH PARKWAY SE  
IMPROVEMENTS  
ROADSIDE PLANTING PLAN

SHEET: **54**  
OF: **XX**

JOB NO.: 13570  
DWG: ST\_SCAPE

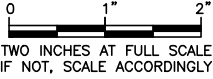
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PLANTING LEGEND

SYMBOL	DESCRIPTION	REMARKS
[Symbol]	STREETSCAPE	SEE ALSO LANDSCAPING DETAILS
[Symbol]	BARK OR WOOD CHIP MULCH	
[Symbol]	SEEDING, FERTILIZING, AND MULCHING	HAND OR HYDRO NO IMPORT TOPSOIL UNLESS APPROVED BY CONTRACTING AGENCY

NOTE: CONTRACTOR SHALL CONFIRM ALL LANDSCAPING LOCATIONS WITH CONTRACTING AGENCY PRIOR TO INSTALLATION.





**Gray & Osborne, Inc.**  
CONSULTING ENGINEERS  
701 DYER AVENUE NORTH, SUITE 200  
SEATTLE, WASHINGTON 98109 • (206) 264-0860

DATE: JAN. 2014

SCALE: H: 1"=20'

DRAWN: B.J.B.

CHECKED: C.B.W.

APPROVED: B.L.S.



PRELIMINARY  
NOT FOR  
CONSTRUCTION

REVISION

DATE

APPD

No.



CITY OF ISSAQUAH  
KING COUNTY  
WASHINGTON

EAST LAKE SAMMAMISH PARKWAY SE  
IMPROVEMENTS

ROADSIDE PLANTING PLAN

SHEET: 55

OF: XX

JOB NO.: 13570

DWG: ST\_SCAPE

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METAL FENCE POST STAKING. STAKE PERPENDICULAR TO THE DOMINATE WIND DIRECTION. 3 STAKES REQUIRED ON TREES 3" OR LARGER.

DRIVE STAKES 1' INTO UNDISTURBED SOIL. GUY ATTACHMENTS: INTERLOCKING PLASTIC TREE TIES. GUYS NOT TAUT

BOTTOM OF TRUNK FLARE SHALL BE SLIGHTLY HIGHER THAN THE SURROUNDING FINISH GRADE.

EXPOSE TOP OF ROOT CROWN.

2" TO 4" OF WOODY MULCH: AGED WOOD CHIPS, SHREDDED BARK, OR SIMILAR MULCH. NO MULCH WITHIN 6" RADIUS OF TRUNK.

SURFACE FERTILIZE ONLY.

ROOT BALL DIAM.

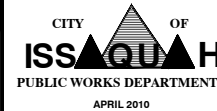
TOPSOIL WITH FIRM SOIL AROUND BALL; DO NOT TAMP. EXPAND BEYOND PLANTING PIT AS SHOWN WHEN NO TOPSOIL IS PRESENT.

WATER THOROUGHLY TO ELIMINATE AIR POCKETS, SETTLING, AND TO SOAK THE BALL AND THE SURROUNDING SOIL.

NOTES:

1. TREE LOCATION TO BE VERIFIED NOT TO CONFLICT WITH UNDERGROUND UTILITIES A MIN. OF 3 FT CLEAR ZONE EACH SIDE.

NO SCALE

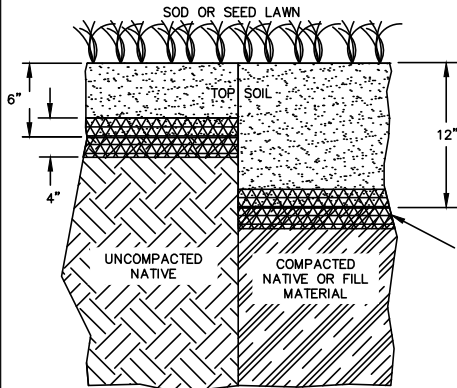


TREE PLANTING DETAIL

STANDARD  
DETAIL NO.  
L-01

NOTE: THE ORIGINAL IS APPROVED FOR PUBLICATION BY PARKS DEPARTMENT AND FILED AT THE CITY OF ISSAQUAH PUBLIC WORKS ENGINEERING OFFICE.

REV:



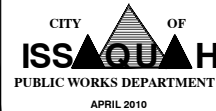
TOP SOIL REQUIREMENTS  
FOR LAWNS

ROTOTILL TOPSOIL INTO  
UNDERLYING LAYER

NOTES:

- 1) ALL PLANT MATERIALS TO MEET THE AMERICAN STANDARD FOR NURSERY STOCK, ANSI Z80.1-1900 OR MOST CURRENT VERSION.
- 2) PLANT, MAINTAIN AND WARRANTY AS PER SPECIAL PROVISIONS.
- 3) DO NOT SUBSTITUTE SPECIES WITHOUT ENGINEER APPROVAL.

NO SCALE

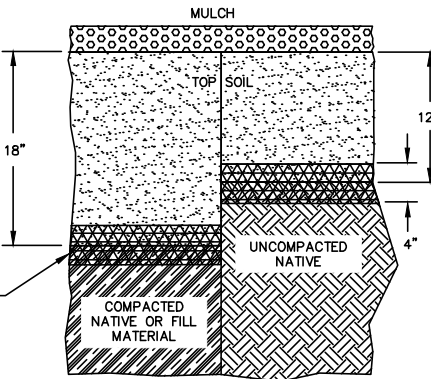


TOP SOIL REQUIREMENTS FOR  
COMPACTED AND  
NON-COMPACTED SOILS

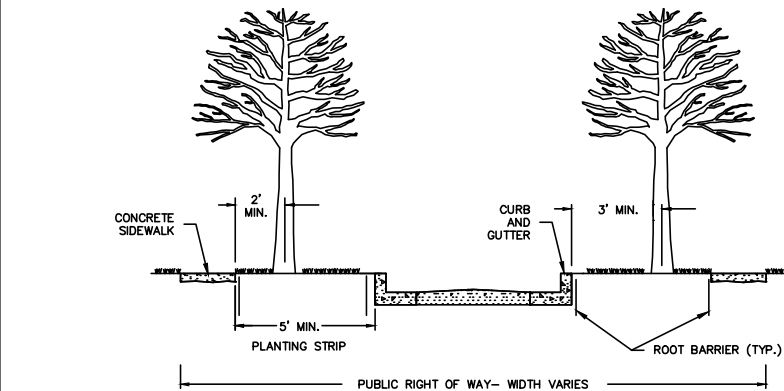
STANDARD  
DETAIL NO.  
L-02

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REV:



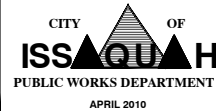
TOP SOIL REQUIREMENTS FOR TREE  
AND SHRUB BEDS



NOTES:

1. TREE SPACING IS DEPENDANT ON THE SIZE AND TYPE OF STREET TREE USED. SEE CONTRACT FOR SPACING.
2. TREES SHALL NOT BE PLACED IN SIGHT DISTANCE TRIANGLES PER MOST CURRENT VERSION OF AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) OR CITY STANDARDS.
3. COORDINATE WITH TRAFFIC SIGNAL ENGINEER SO THAT TREES DO NOT OBSTRUCT OPERATIONS OF TRAFFIC SIGNAL SYSTEMS.
4. PLANTING STRIP IRRIGATION SYSTEMS SHALL MEET IRRIGATION STANDARD AND INCORPORATE LATEST WATER CONSERVATION TECHNIQUES.
5. STREET TREES SHALL HAVE A MINIMUM OVERHEAD CLEARANCE OF SEVEN (7) FEET OVER PEDESTRIAN PATHWAYS AND FOURTEEN (14) FEET OVER STREETS. STREET TREES SHALL BE CENTERED A MINIMUM OF THIRTY (30) FEET FROM INTERSECTIONS, TWENTY (20) FEET FROM STREET LIGHTS, THREE (3) FEET FROM CURBS AND TWO (2) FEET FROM SIDEWALKS OR AS OTHERWISE APPROVED BY THE CITY.
6. STREET TREES SHALL BE PLANTED IN A PLANTING STRIP WITH A MINIMUM OF FIVE (5) FEET BETWEEN THE SIDEWALK AND THE BACK OF THE CURB.
7. TREE PIT AREA SHALL BE A MINIMUM OF 24 SQUARE FEET.
8. ROOT BARRIER SHALL EXTEND A MINIMUM OF 5 FEET BEYOND TREE (REFER TO MANUFACTURERS DETAIL).

NO SCALE



TYPICAL STREET TREE  
LOCATION REQUIREMENTS

STANDARD  
DETAIL NO.  
L-03

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REV:



**Gray & Osborne, Inc.**  
CONSULTING ENGINEERS  
701 DEXTER AVENUE NORTH, SUITE 200  
SEATTLE, WASHINGTON 98109 • (206) 264-0860

DATE: JAN. 2014  
SCALE:  
DRAWN:  
CHECKED: C.B.W.  
APPROVED: B.L.S.

PRELIMINARY  
NOT FOR  
CONSTRUCTION

DATE APPD  
REVISION  
No.



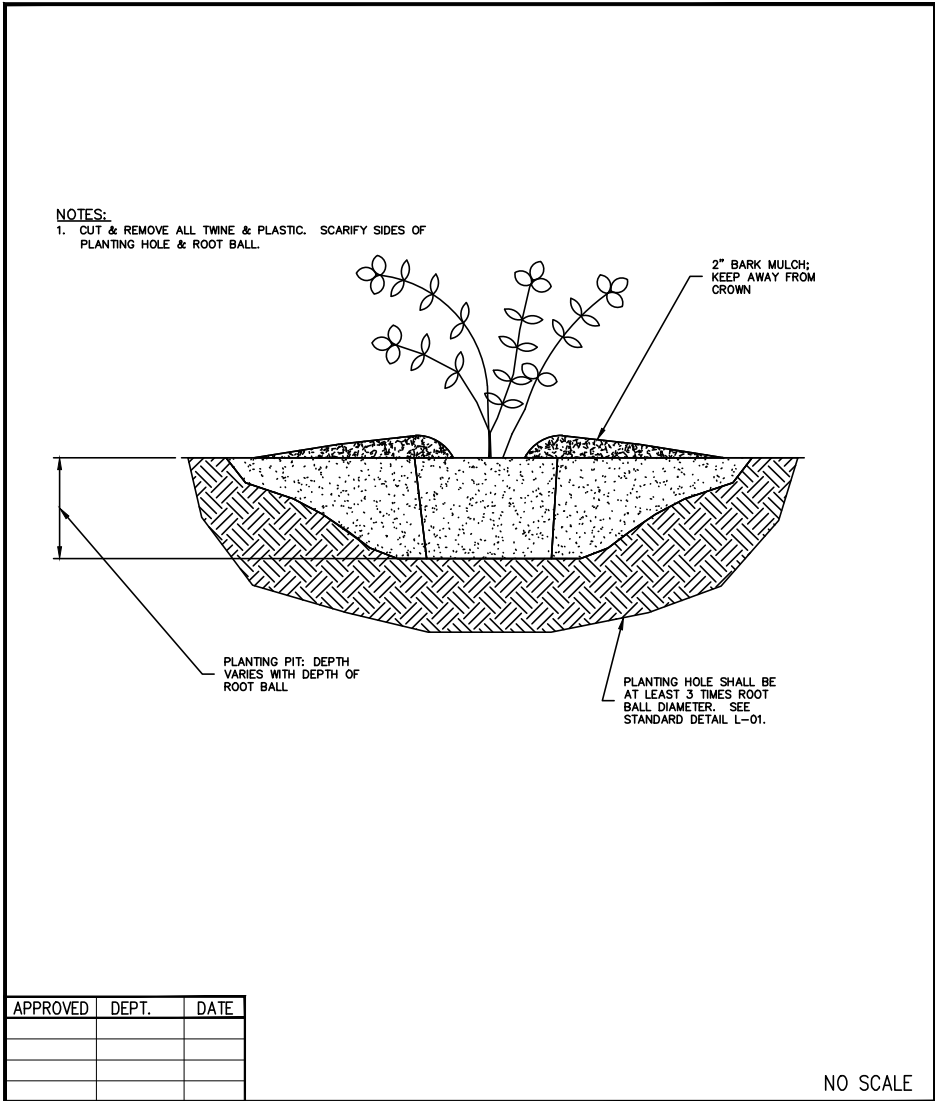
CITY OF ISSAQUAH  
KING COUNTY  
WASHINGTON  
EAST LAKE SAMMAMISH PARKWAY SE  
IMPROVEMENTS

PLANTING AND LANDSCAPE DETAILS

SHEET: 56  
OF: XX

JOB NO.: 13570  
DWG: LAND\_DET1

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CITY OF ISSAQUAH

PUBLIC WORKS DEPARTMENT

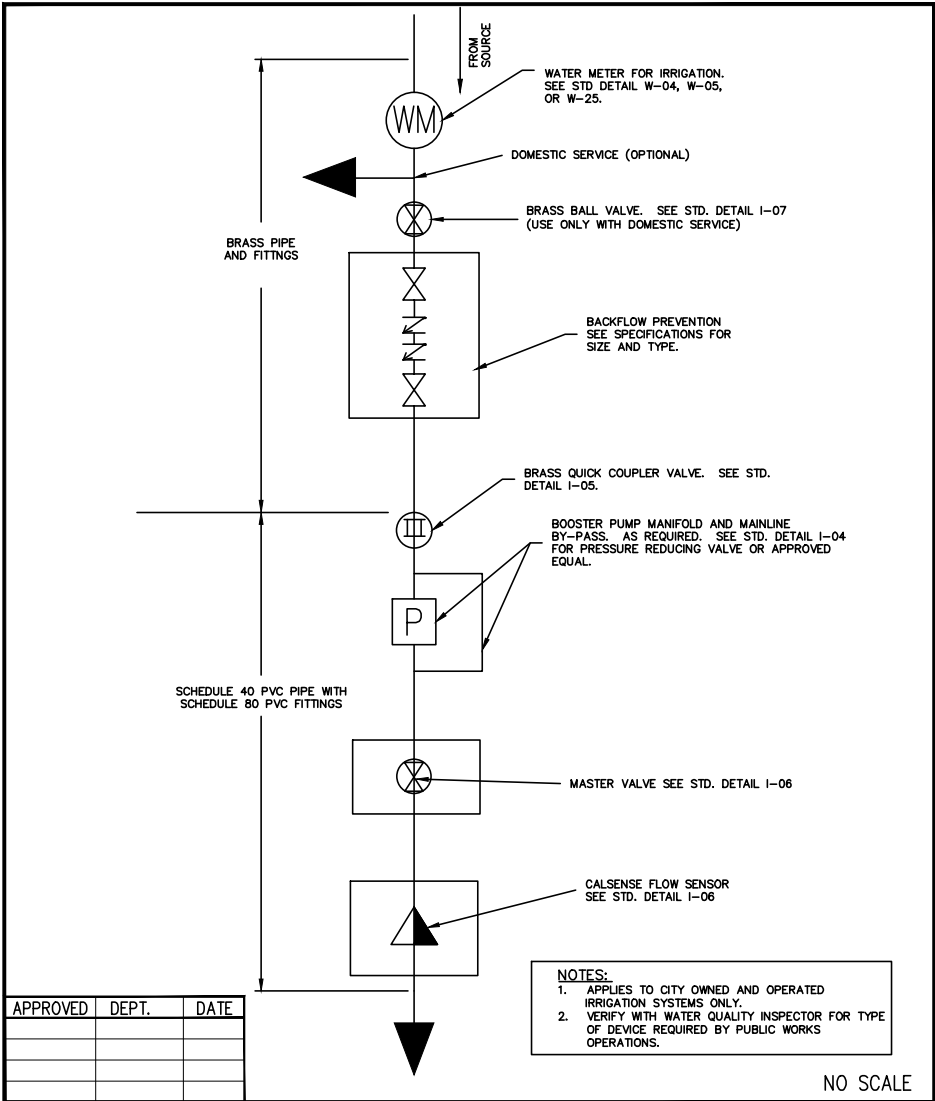
APRIL 2010

TYPICAL SHRUB GROUND COVER PLANTING

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STANDARD DETAIL NO. L-04

REV:



CITY OF ISSAQUAH

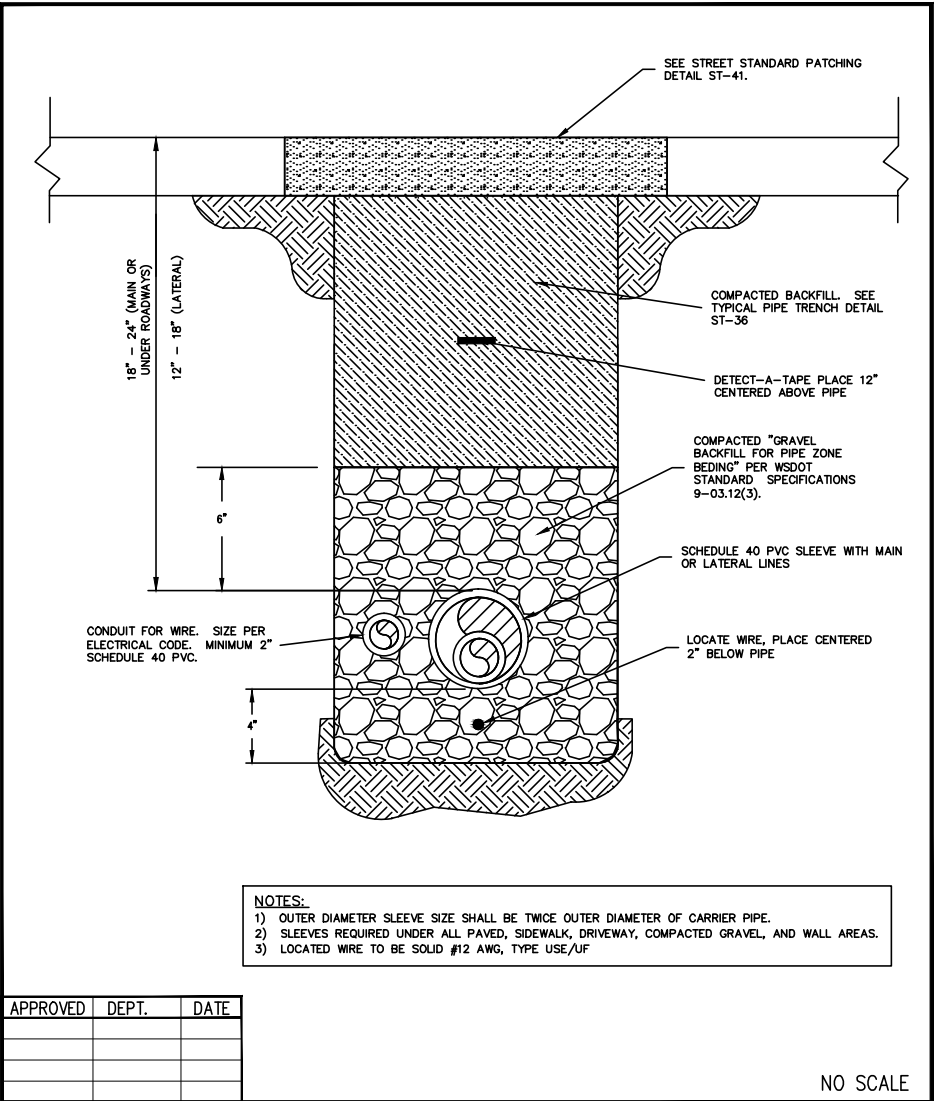
PUBLIC WORKS DEPARTMENT

APRIL 2010

IRRIGATION CONNECTION SCHEMATIC

STANDARD DETAIL NO. I-01

REV:



CITY OF ISSAQUAH

PUBLIC WORKS DEPARTMENT

APRIL 2010

IRRIGATION SLEEVE TRENCHING

STANDARD DETAIL NO. I-02

REV:

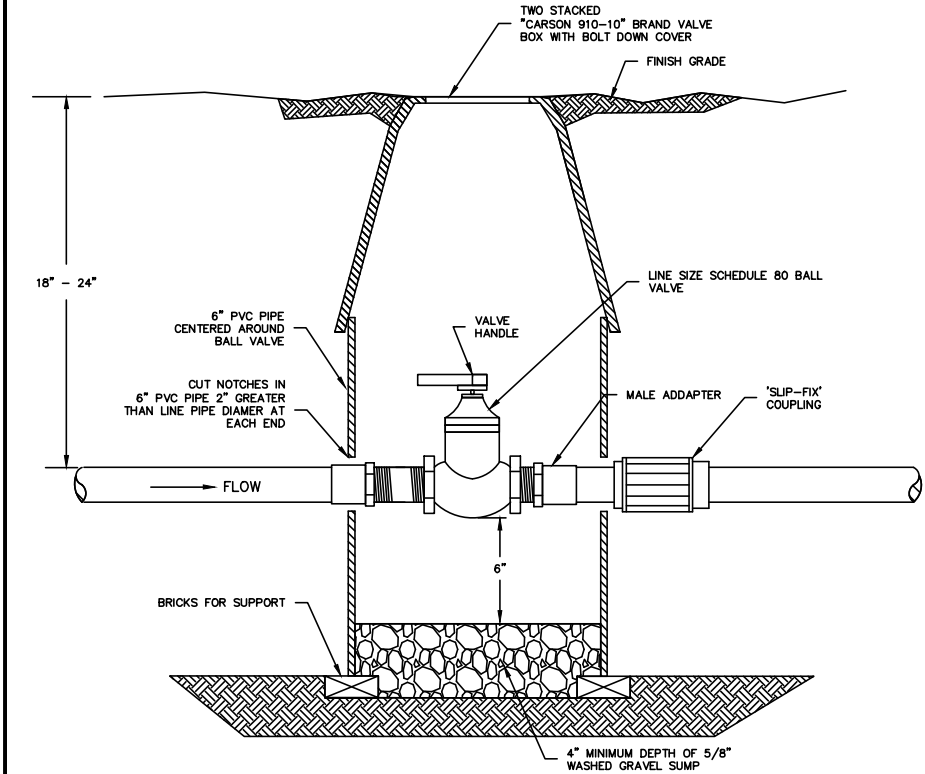
DATE: JAN. 2014	SCALE:	DRAWN:	CHECKED: C.B.W.	APPROVED: B.L.S.
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	DATE	APPD
PRELIMINARY NOT FOR CONSTRUCTION	REVISION	No.





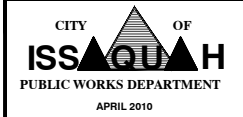
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NOTE:  
1) USE TEFLON TAPE ON ALL THREADED FITTINGS.  
2) PIPE TO BE SCH 40 PVC, NIPPLES AND FITTINGS TO BE SCH 80.

APPROVED	DEPT.	DATE

NO SCALE

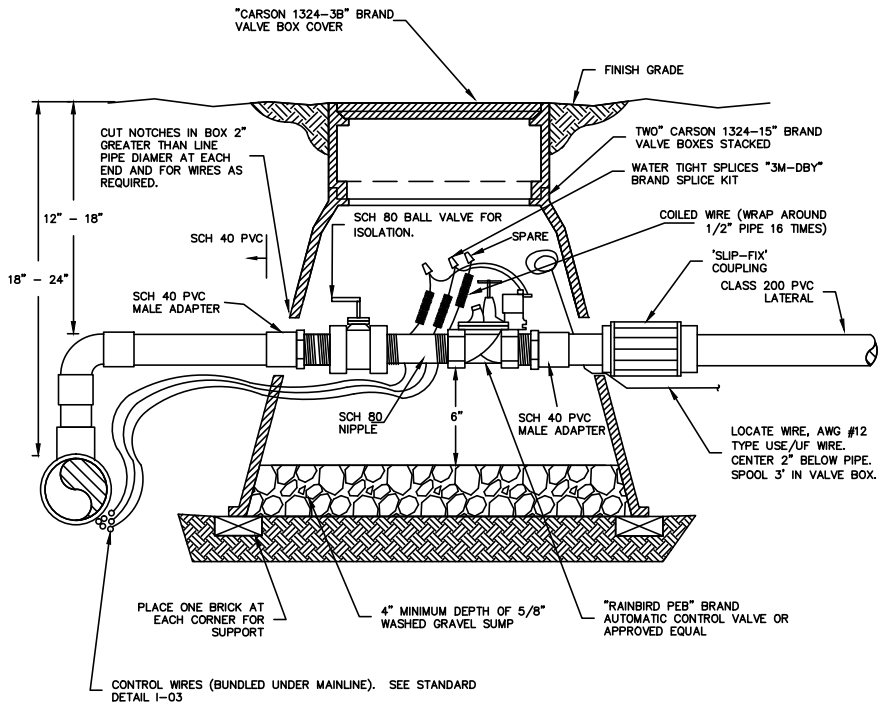


IRRIGATION BALL VALVE  
THROUGH 2"

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STANDARD  
DETAIL NO.  
I-07

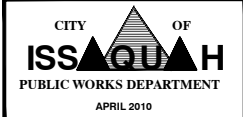
REV:



NOTE:  
1) USE TEFLON TAPE ON ALL THREADED FITTINGS.

APPROVED	DEPT.	DATE

NO SCALE

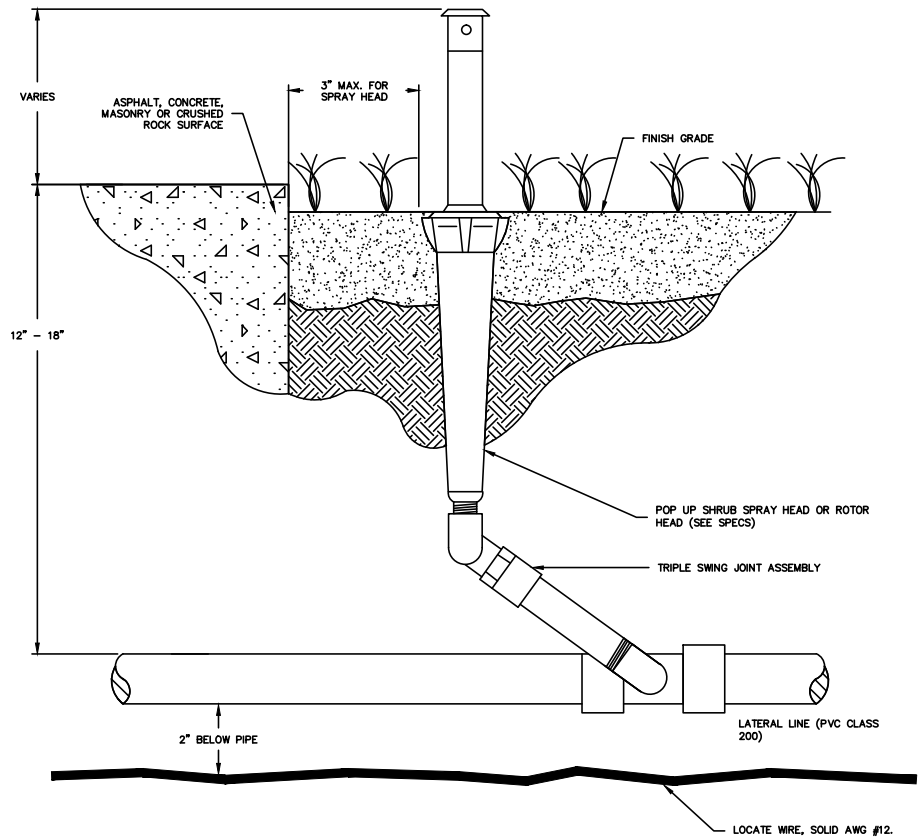


AUTOMATIC IRRIGATION  
CONTROL VALVE

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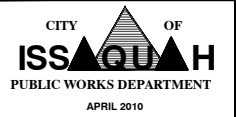
STANDARD  
DETAIL NO.  
I-08

REV:



APPROVED	DEPT.	DATE

NO SCALE



IRRIGATION  
POP UP SPRAY  
OR ROTOR HEAD

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STANDARD  
DETAIL NO.  
I-09

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CONSULTING ENGINEERS  
701 DYER AVENUE NORTH, SUITE 200  
SEATTLE, WASHINGTON 98109 • (206) 264-0860

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	DATE	APPD
PRELIMINARY NOT FOR CONSTRUCTION		

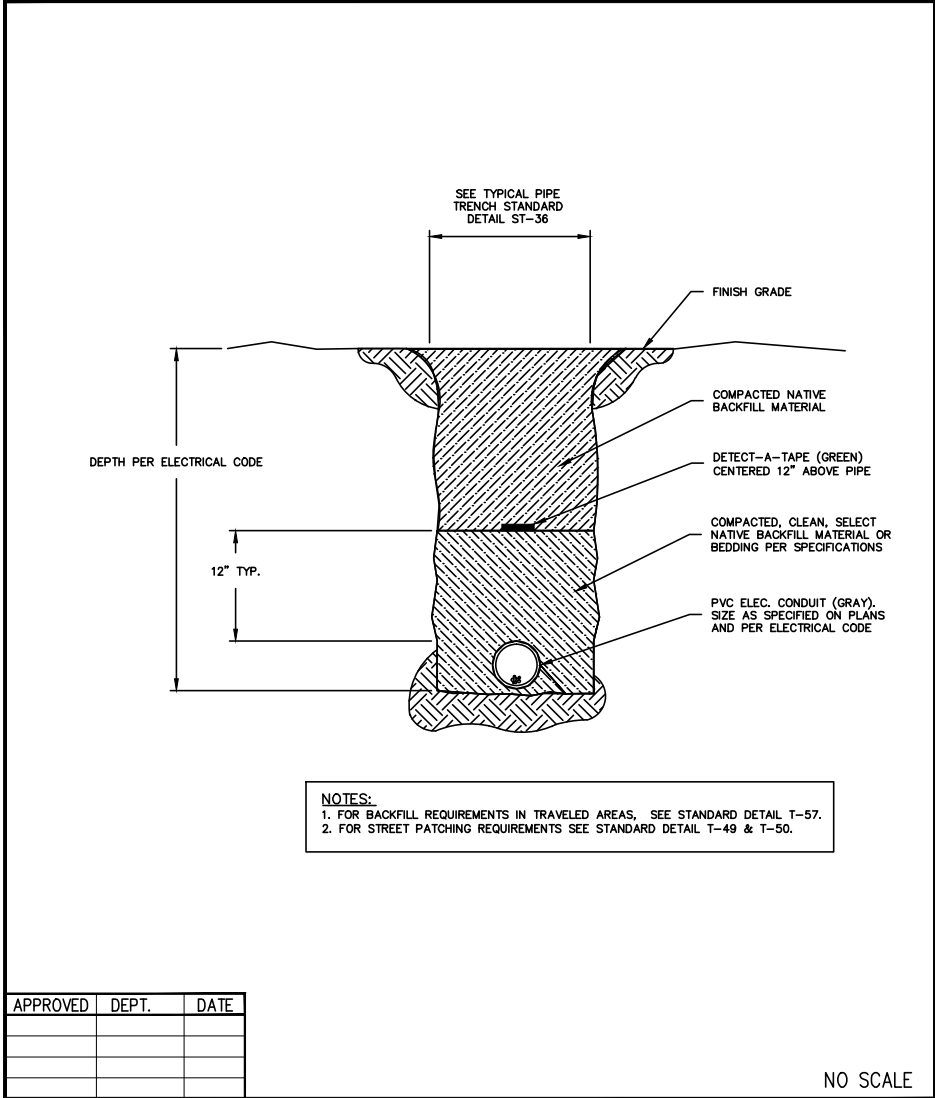



CITY OF ISSAQUAH  
KING COUNTY  
EAST LAKE SAMMAMISH PARKWAY SE  
IMPROVEMENTS  
PLANTING AND LANDSCAPE DETAILS

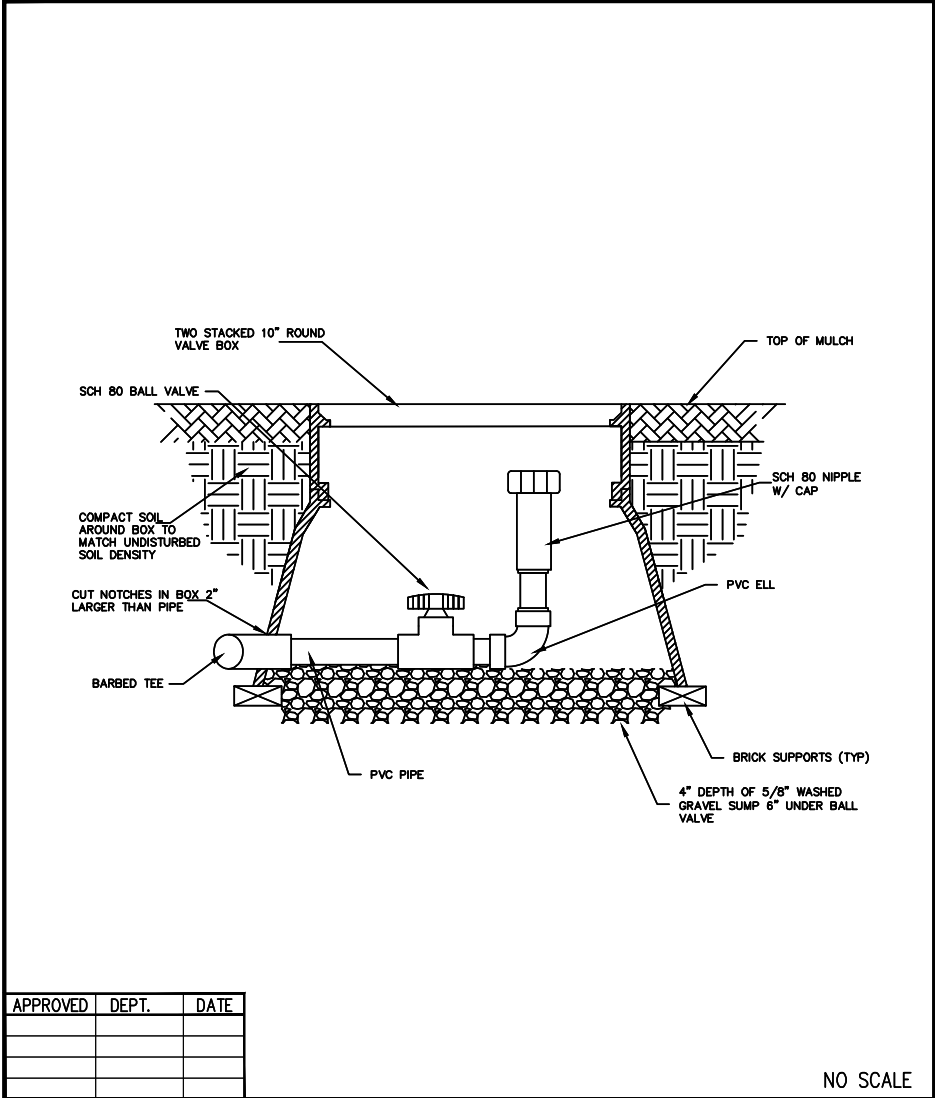
SHEET: 58  
OF: XX

JOB NO.: 13570  
DWG: LAND\_DET3

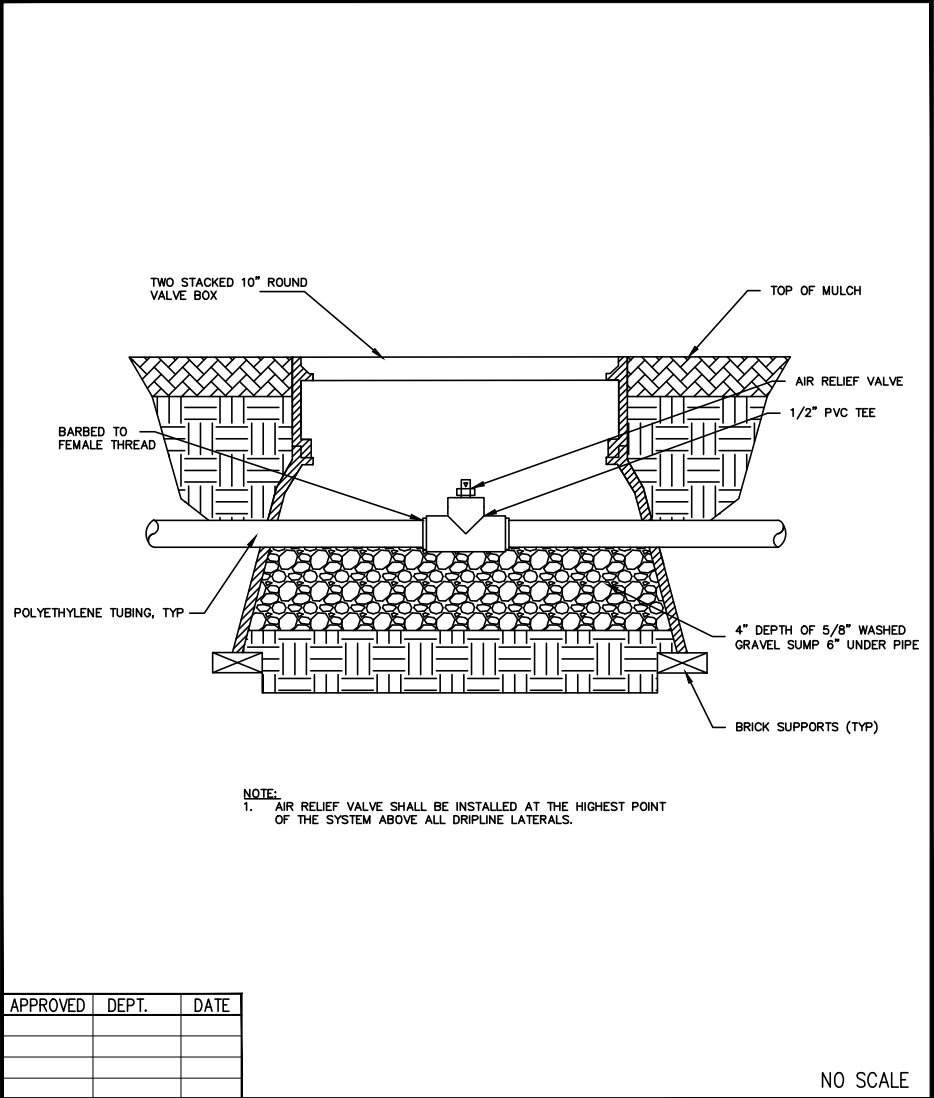
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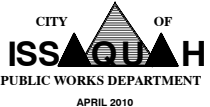



 CITY OF ISSAQUAH PUBLIC WORKS DEPARTMENT APRIL 2010	<b>IRRIGATION POWER SUPPLY TRENCH</b>	<b>STANDARD DETAIL NO. I-10</b>
<small>NOTE: THE ORIGINAL IS APPROVED FOR PUBLICATION BY PARKS DEPARTMENT AND FILED AT THE CITY OF ISSAQUAH PUBLIC WORKS ENGINEERING OFFICE.</small>		



 CITY OF ISSAQUAH PUBLIC WORKS DEPARTMENT APRIL 2010	<b>IRRIGATION FLUSH VALVE</b>	<b>STANDARD DETAIL NO. I-13</b>
<small>NOTE: THE ORIGINAL IS APPROVED FOR PUBLICATION BY PARKS DEPARTMENT AND FILED AT THE CITY OF ISSAQUAH PUBLIC WORKS ENGINEERING OFFICE.</small>		



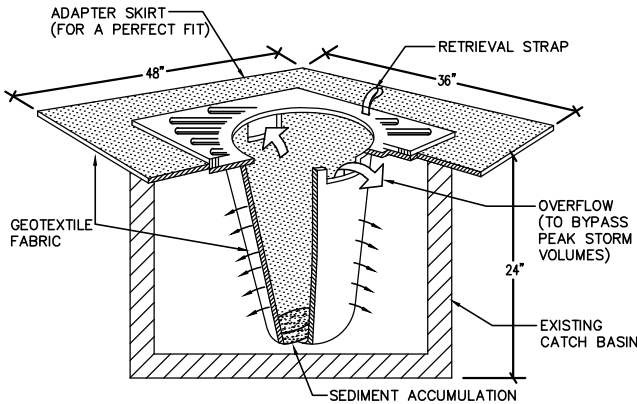
 CITY OF ISSAQUAH PUBLIC WORKS DEPARTMENT APRIL 2010	<b>IRRIGATION AIR RELIEF VALVE</b>	<b>STANDARD DETAIL NO. I-14</b>
<small>NOTE: THE ORIGINAL IS APPROVED FOR PUBLICATION BY PARKS DEPARTMENT AND FILED AT THE CITY OF ISSAQUAH PUBLIC WORKS ENGINEERING OFFICE.</small>		

 <b>Gray &amp; Osborne, Inc.</b> CONSULTING ENGINEERS 701 DECKER AVENUE NORTH SUITE 200 SEATTLE, WASHINGTON 98109 • (206) 264-0860				
DATE: JAN. 2014	SCALE:	DRAWN:	CHECKED: C.B.W.	APPROVED: B.L.S.
PRELIMINARY NOT FOR CONSTRUCTION		REVISION	DATE	APPD
CITY OF ISSAQUAH KING COUNTY EAST LAKE SAMMAMISH PARKWAY SE IMPROVEMENTS		PLANTING AND LANDSCAPE DETAILS		
SHEET: 59		OF: XX		
JOB NO.: 13570		DWG: LAND_DET4		

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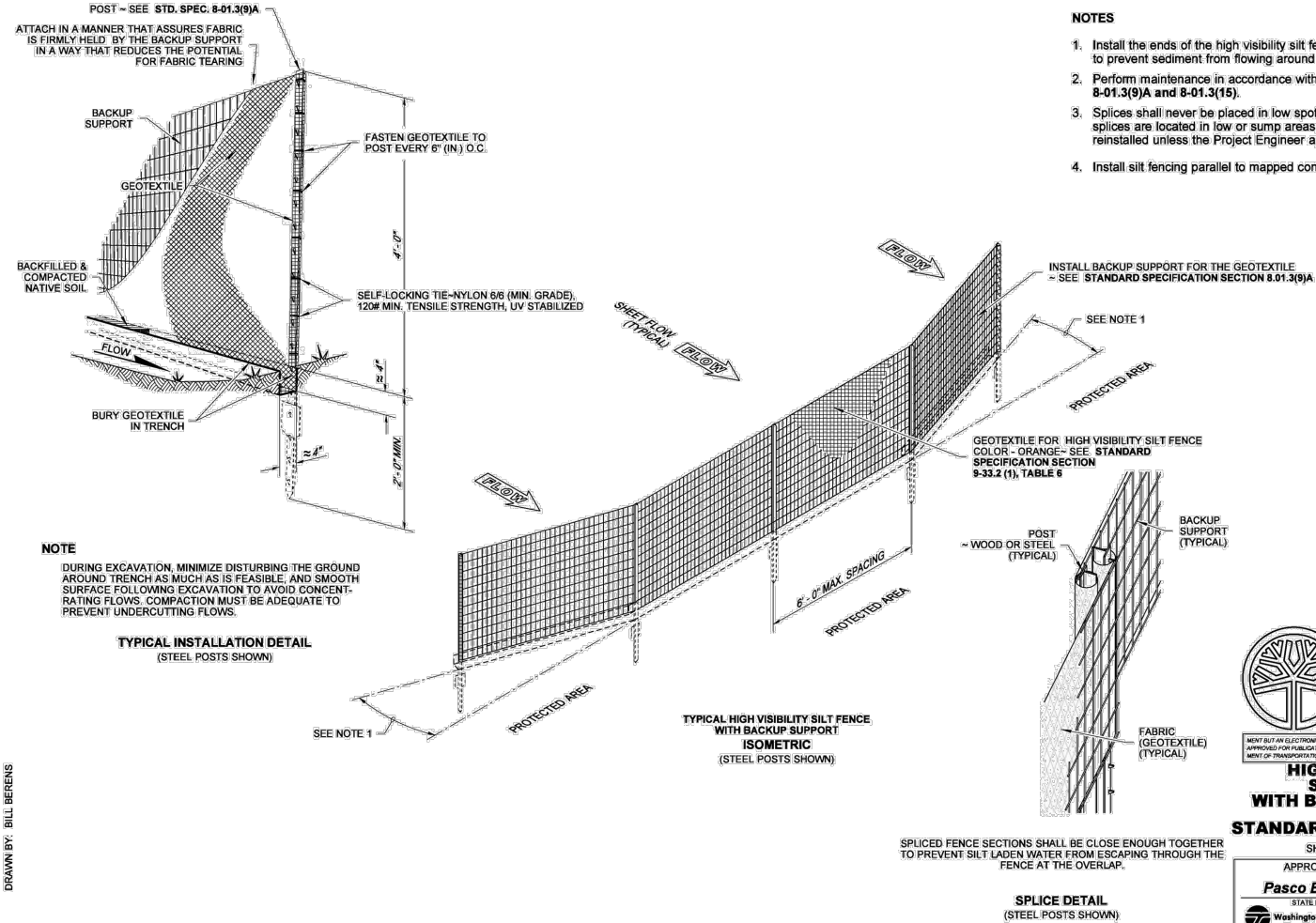
EROSION/SEDIMENTATION CONTROL NOTES

1. CONTRACTOR SHALL SUBMIT TEMPORARY WATER POLLUTION/EROSION CONTROL PLAN PER THE CONTRACT SPECIFICATIONS.
2. ALL LIMITS OF CLEARING AND AREAS OF VEGETATION PRESERVATION SHALL BE OBSERVED DURING CONSTRUCTION.
3. ALL REQUIRED SEDIMENTATION/EROSION CONTROL FACILITIES MUST BE IN OPERATION PRIOR TO LAND CLEARING AND/OR OTHER CONSTRUCTION TO ENSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER THE NATURAL DRAINAGE SYSTEM. ALL EROSION AND SEDIMENT FACILITIES SHALL BE MAINTAINED IN A SATISFACTORY CONDITION UNTIL SUCH TIME THAT CLEARING AND /OR CONSTRUCTION IS COMPLETED AND THE POTENTIAL FOR ON-SITE EROSION HAS PASSED. THE IMPLEMENTATION, MAINTENANCE, REPLACEMENT AND ADDITIONS TO EROSION/SEDIMENTATION CONTROL SYSTEMS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
4. THE EROSION AND SEDIMENTATION CONTROL SYSTEMS DEPICTED ON THIS DRAWING ARE INTENDED TO BE MINIMUM REQUIREMENTS TO MEET ANTICIPATED SITE CONDITIONS. AS CONSTRUCTION PROGRESSES AND AS UNEXPECTED OR SEASONAL CONDITIONS DICTATE, THE CONTRACTOR SHOULD ANTICIPATE THAT MORE EROSION AND SEDIMENTATION CONTROL FACILITIES WILL BE NECESSARY TO ENSURE COMPLETE SILTATION CONTROL ON THE PROPOSED SITE. DURING THE COURSE OF CONSTRUCTION, IT SHALL BE THE OBLIGATION AND RESPONSIBILITY OF THE CONTRACTOR TO ADDRESS ANY NEW CONDITIONS THAT MAY BE CREATED BY HIS ACTIVITIES AND TO PROVIDE ADDITIONAL FACILITIES, OVER AND ABOVE THE MINIMUM REQUIREMENTS, AS MAY BE NEEDED TO PROTECT ADJACENT PROPERTIES AND THE WATER QUALITY OF THE RECEIVING DRAINAGE SYSTEM.
5. AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND DISPOSING OF THE SEDIMENT. ALL CATCH BASINS, CONVEYANCE LINES AND DITCHES SHALL BE CLEANED PRIOR TO PAVING.
6. THE CONTRACTOR SHALL REMOVE MATERIAL DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO THE TOWN RIGHT-OF-WAY OR INTO THE EXISTING STORM DRAINAGE SYSTEM. DEBRIS SHALL NOT BE WASHED INTO THE STORM DRAINAGE SYSTEM.
7. TEMPORARY EROSION CONTROL FACILITIES SHALL BE INSPECTED WEEKLY AND MAINTAINED WITHIN 24 HOURS FOLLOWING A STORM EVENT. SEDIMENT SHALL BE REMOVED TO INSURE THE FACILITIES WILL FUNCTION PROPERLY. THE FACILITIES SHALL BE SATISFACTORILY MAINTAINED UNTIL CONSTRUCTION IS COMPLETED AND THE POTENTIAL FOR ON-SITE EROSION HAS PASSED.
8. ALL STORM DRAIN INLETS MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT STORMWATER RUNOFF SHALL NOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.
9. NO DISTURBED SOIL SHALL REMAIN UNSTABILIZED FOR MORE THAN TWO DAYS.
10. CONTRACTOR SHALL CONFORM TO THE D.O.E. STORMWATER GENERAL PERMIT CONDITIONS.



STORM DRAIN INLET PROTECTION

NOT TO SCALE

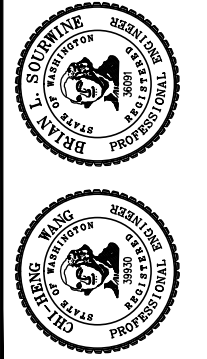


NOTES

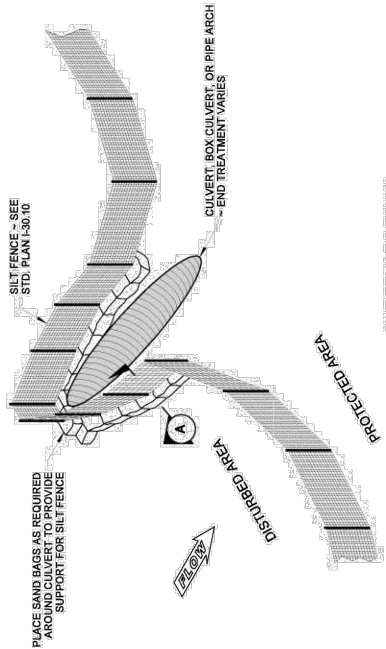
1. Install the ends of the high visibility silt fence to point slightly upslope to prevent sediment from flowing around the ends of the fence.
2. Perform maintenance in accordance with **Standard Specifications 8-01.3(9)A and 8-01.3(15)**.
3. Splices shall never be placed in low spots or sump locations. If splices are located in low or sump areas, the fence may need to be reinstalled unless the Project Engineer approves the installation.
4. Install silt fencing parallel to mapped contour lines.

DATE: JAN. 2014	SCALE:	DRAWN:	CHECKED: C.B.W.	APPROVED: B.L.S.
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PRELIMINARY NOT FOR CONSTRUCTION	DATE	APPD
	REVISION	
	No.	

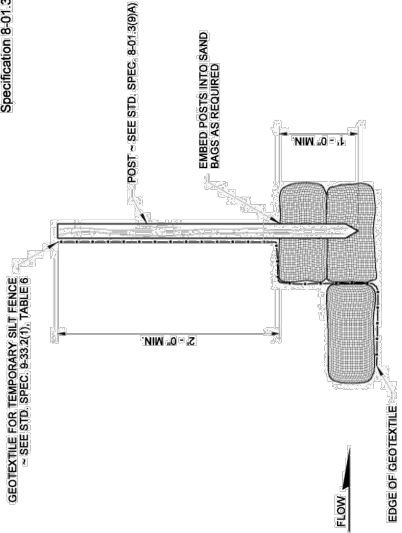


DRAWN BY: LISA CYFORD

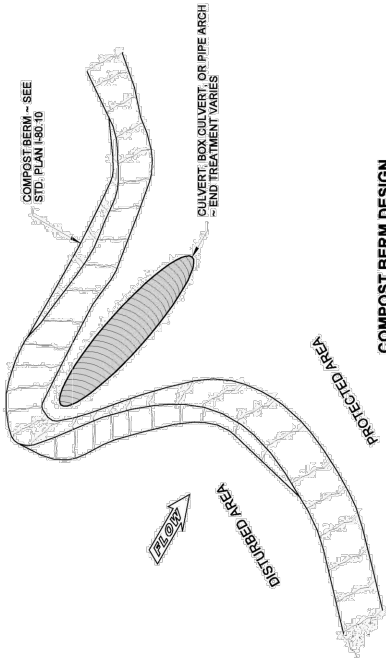


SILT FENCE DESIGN

**NOTE**  
Perform maintenance in accordance with Standard Specification 8-01.3(9)(A) and 8-01.3(15).



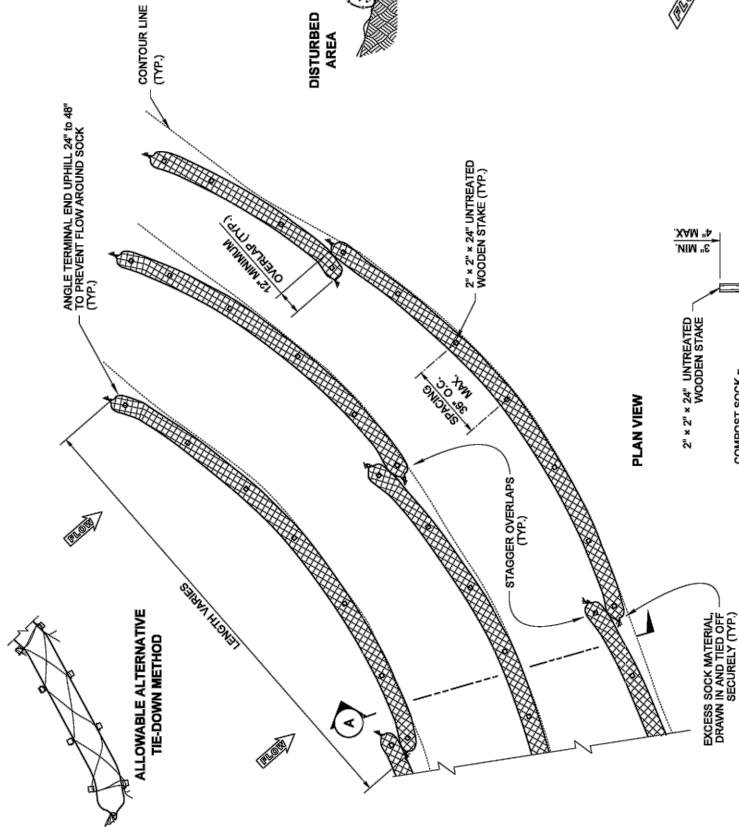
SECTION A



COMPOST BERM DESIGN



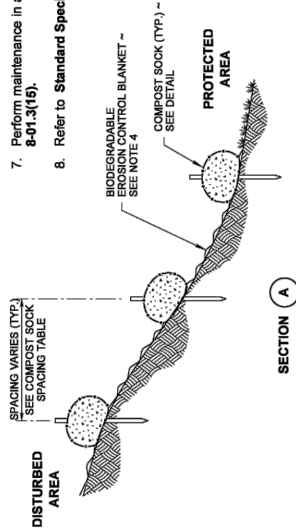
**EROSION CONTROL  
AT CULVERT ENDS**  
**STANDARD PLAN I-30.20-00**  
SHEET 1 OF 1 SHEET



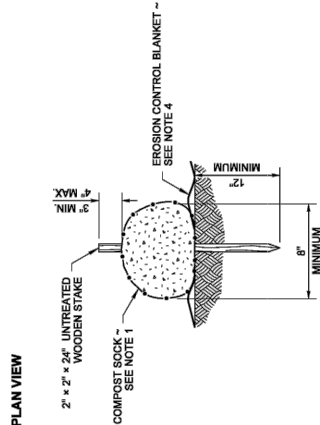
DRAWN BY: FERN LIDDELL

**NOTES**

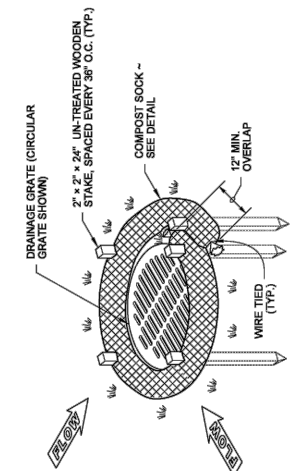
1. Compost Sock shall be in accordance with **Standard Specification 9-14.5(6)**.
2. Securely knot each end of Compost Sock. Overlap adjacent Compost Sock ends 12" behind one another and securely tie together.
3. Compost to be dispersed on site as determined by the Engineer, when vegetation covers the surface.
4. If Erosion Control Blanket is specified, place Compost Sock on top of blanket. See **Standard Plan I-40.10**.
5. Install Compost Sock perpendicular to flow along contours.
6. Remove sediment from the up slope side of the Compost Sock when accumulation has reached 1/2 of the effective height of the Compost Sock.
7. Perform maintenance in accordance with **Standard Specification 8-01.3(16)**.
8. Refer to **Standard Specification 8-01.3(16)** for removal.



SECTION A



8" DIA METER COMPOST SOCK SPACING TABLE	
SLOPE	MAXIMUM SPACING
1H : 1V	10' - 0"
2H : 1V	20' - 0"
3H : 1V	30' - 0"
4H : 1V	40' - 0"



COMPOST SOCK DETAIL

ISOMETRIC VIEW  
CATCH BASIN INSTALLATION



**COMPOST SOCK**  
**STANDARD PLAN I-30.40-01**  
SHEET 1 OF 1 SHEET



**CITY OF ISSAQUAH**  
KING COUNTY WASHINGTON  
**EAST LAKE SAMMAMISH PARKWAY SE  
IMPROVEMENTS**  
EROSION CONTROL DETAILS



No.	REVISION	DATE	APPD
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